

Georgia Southern University

Digital Commons@Georgia Southern

Joint Graduate Program ASC SSC

Armstrong Office of the Registrar

1976

1976-1977 Graduate Catalog

Armstrong State College

Savannah State College

Follow this and additional works at: <https://digitalcommons.georgiasouthern.edu/catalog-grad-asc-ssc>

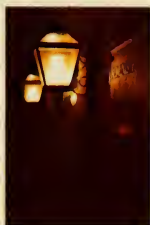
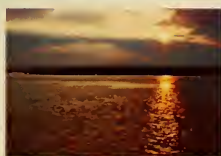
Recommended Citation

Armstrong State College and Savannah State College, "1976-1977 Graduate Catalog" (1976). *Joint Graduate Program ASC SSC*. 3.

<https://digitalcommons.georgiasouthern.edu/catalog-grad-asc-ssc/3>

This catalog is brought to you for free and open access by the Armstrong Office of the Registrar at Digital Commons@Georgia Southern. It has been accepted for inclusion in Joint Graduate Program ASC SSC by an authorized administrator of Digital Commons@Georgia Southern. For more information, please contact digitalcommons@georgiasouthern.edu.

A SSC C



Catalogue and General Bulletin
Joint Graduate Studies Program
VANNAH STATE COLLEGE and ARMSTRONG STATE COLLEGE
Savannah, Georgia
1976-1977

BULLETIN
of
THE JOINT GRADUATE STUDIES PROGRAM
OF
SAVANNAH STATE COLLEGE—ARMSTRONG STATE COLLEGE
Units of the University System of Georgia
1976—1977

The statements set forth in this Catalogue are for informational purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of this Catalogue will ordinarily be applied as stated, Savannah State College and Armstrong State College reserve the right to change any provision listed in this Catalogue, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available in the Graduate Office at Savannah State College and the Graduate Office at Armstrong State College. It is especially important that each student note that it is his/her responsibility to keep himself/herself apprised of current graduation requirements for his/her particular degree program.

Armstrong State College and Savannah State College are in compliance with Title VI of the Civil Rights Act and do not discriminate on the basis of sex, race, creed, or national origin.

CONTENTS

Academic Calendar — 1976-77	4
Governing Board and Staff of the University System of Georgia	6
Administrative Officers of the Joint Graduate Studies Program	8
Heads of the Graduate Departments	8
The Graduate Council	9
The Graduate Faculty	10
History, Purpose, and Organization	15
Fees, Refunds, and Financial Assistance	17
Admission to Graduate Study	20
Academic Regulations	25
Degrees and General Degree Requirements	31
Departments: Programs and Courses	35
 Business Administration	 36
M.B.A. Program	
M.Ed., Business Education	
 Biology	 49
M.Ed., Biology	
 Chemistry	 56
M.Ed., Chemistry	
 Education	 60
M.Ed., Elementary Education	
M.Ed., Early Childhood Education	
M.Ed., Special Education — Behavior Disorders	
 English	 74
M.Ed., English	
 History and Political Science	 78
M.Ed., History	
M.Ed., Political Science	
 Mathematics	 92
M.Ed., Mathematics	
 Index	 100

1976

JANUARY	FEBRUARY	MARCH	APRIL
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
<div>1 2 3</div> <div>4 5 6 7 8 9 10</div> <div>11 12 13 14 15 16 17</div> <div>18 19 20 21 22 23 24</div> <div>25 26 27 28 29 30 31</div>	<div>1 2 3 4 5 6 7</div> <div>8 9 10 11 12 13 14</div> <div>15 16 17 18 19 20 21</div> <div>22 23 24 25 26 27 28</div> <div>29</div>	<div>1 2 3 4 5 6</div> <div>7 8 9 10 11 12 13</div> <div>14 15 16 17 18 19 20</div> <div>21 22 23 24 25 26 27</div> <div>28 29 30 31</div>	<div>1 2 3</div> <div>4 5 6 7 8 9 10</div> <div>11 12 13 14 15 16 17</div> <div>18 19 20 21 22 23 24</div> <div>25 26 27 28 29 30</div>
MAY	JUNE	JULY	AUGUST
<div>1</div> <div>2 3 4 5 6 7 8</div> <div>9 10 11 12 13 14 15</div> <div>16 17 18 19 20 21 22</div> <div>23 24 25 26 27 28 29</div> <div>30 31</div>	<div>1 2 3 4 5</div> <div>6 7 8 9 10 11 12</div> <div>13 14 15 16 17 18 19</div> <div>20 21 22 23 24 25 26</div> <div>27 28 29 30</div>	<div>1 2 3</div> <div>4 5 6 7 8 9 10</div> <div>11 12 13 14 15 16 17</div> <div>18 19 20 21 22 23 24</div> <div>25 26 27 28 29 30 31</div>	<div>1 2 3 4 5 6 7</div> <div>8 9 10 11 12 13 14</div> <div>15 16 17 18 19 20 21</div> <div>22 23 24 25 26 27 28</div> <div>29 30 31</div>
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
<div>1 2 3 4</div> <div>5 6 7 8 9 10 11</div> <div>12 13 14 15 16 17 18</div> <div>19 20 21 22 23 24 25</div> <div>26 27 28 29 30</div>	<div>1 2</div> <div>3 4 5 6 7 8 9</div> <div>10 11 12 13 14 15 16</div> <div>17 18 19 20 21 22 23</div> <div>24 25 26 27 28 29 30</div> <div>31</div>	<div>1 2 3 4 5 6</div> <div>7 8 9 10 11 12 13</div> <div>14 15 16 17 18 19 20</div> <div>21 22 23 24 25 26 27</div> <div>28 29 30</div>	<div>1 2 3 4</div> <div>5 6 7 8 9 10 11</div> <div>12 13 14 15 16 17 18</div> <div>19 20 21 22 23 24 25</div> <div>26 27 28 29 30 31</div>

1977

JANUARY	FEBRUARY	MARCH	APRIL
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
<div>1</div> <div>2 3 4 5 6 7 8</div> <div>9 10 11 12 13 14 15</div> <div>16 17 18 19 20 21 22</div> <div>23 24 25 26 27 28 29</div> <div>30 31</div>	<div>1 2 3 4 5</div> <div>6 7 8 9 10 11 12</div> <div>13 14 15 16 17 18 19</div> <div>20 21 22 23 24 25 26</div> <div>27 28</div>	<div>1 2 3 4 5</div> <div>6 7 8 9 10 11 12</div> <div>13 14 15 16 17 18 19</div> <div>20 21 22 23 24 25 26</div> <div>27 28 29 30 31</div>	<div>1 2</div> <div>3 4 5 6 7 8 9</div> <div>10 11 12 13 14 15 16</div> <div>17 18 19 20 21 22 23</div> <div>24 25 26 27 28 29 30</div>
MAY	JUNE	JULY	AUGUST
<div>1 2 3 4 5 6 7</div> <div>8 9 10 11 12 13 14</div> <div>15 16 17 18 19 20 21</div> <div>22 23 24 25 26 27 28</div> <div>29 30 31</div>	<div>1 2 3 4</div> <div>5 6 7 8 9 10 11</div> <div>12 13 14 15 16 17 18</div> <div>19 20 21 22 23 24 25</div> <div>26 27 28 29 30</div>	<div>1 2</div> <div>3 4 5 6 7 8 9</div> <div>10 11 12 13 14 15 16</div> <div>17 18 19 20 21 22 23</div> <div>24 25 26 27 28 29 30</div> <div>31</div>	<div>1 2 3 4 5 6</div> <div>7 8 9 10 11 12 13</div> <div>14 15 16 17 18 19 20</div> <div>21 22 23 24 25 26 27</div> <div>28 29 30 31</div>
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
<div>1 2 3</div> <div>4 5 6 7 8 9 10</div> <div>11 12 13 14 15 16 17</div> <div>18 19 20 21 22 23 24</div> <div>25 26 27 28 29 30</div>	<div>1</div> <div>2 3 4 5 6 7 8</div> <div>9 10 11 12 13 14 15</div> <div>16 17 18 19 20 21 22</div> <div>23 24 25 26 27 28 29</div> <div>30 31</div>	<div>1 2 3 4 5</div> <div>6 7 8 9 10 11 12</div> <div>13 14 15 16 17 18 19</div> <div>20 21 22 23 24 25 26</div> <div>27 28 29 30</div>	<div>1 2 3</div> <div>4 5 6 7 8 9 10</div> <div>11 12 13 14 15 16 17</div> <div>18 19 20 21 22 23 24</div> <div>25 26 27 28 29 30 31</div>

ACADEMIC CALENDAR

1976-1977

SUMMER QUARTER, 1976

APRIL	30	Last day to file applications for graduation at end of Summer Quarter.
JUNE	15	Registration — Tuesday.
	16	Classes begin — Wednesday.
	18	Last day to register for credit — Friday.
JULY	5	Holiday — Monday.
	8	Mid-term — Thursday.
	8	Last day to withdraw from class with grade of W.
	19-23	Preregistration for Fall Quarter.
AUGUST	13	Last day of classes — Friday.
	16-18	Examinations — Monday-Wednesday.
	18	Graduation — Wednesday.

FALL QUARTER, 1976

SEPTEMBER	21	Registration — Tuesday.
	23	Classes begin — Thursday.
	27	Last day to register for credit — Monday.
NOVEMBER	1	Last day to withdraw from class with grade of W.
	1	Mid-term — Monday.
	15-19	Preregistration for Winter Quarter.
	24-26	Thanksgiving Holidays (begin at 12:30 P.M. on November 24.)
DECEMBER	3	Last day of classes — Friday.
	6-8	Examinations — Monday-Wednesday.
	9	Christmas vacation begins — Thursday.

WINTER QUARTER, 1977

JANUARY	3	Registration — Monday.
	4	Classes begin — Tuesday.
	6	Last day to register for credit — Thursday.
	31	Last day to file application for graduation at end of Spring Quarter — Monday.
FEBRUARY	7	Mid-term — Monday.
	7	Last day to withdraw from class with grade of W.
	21-25	Preregistration for Spring Quarter.

MARCH	14	Last day of classes — Monday.
	16-18	Examinations — Friday.
	21-24	Spring recess — Monday-Thursday.

SPRING QUARTER, 1977

MARCH	25	Registration — Friday.
	28	Classes begin — Monday.
	30	Last day to register for credit — Wednesday.
APRIL	29	Last day to file application for graduation at end of Summer Quarter — Friday.
MAY	2	Mid-term — Monday.
	2	Last day to withdraw from class with grade of W.
	16-20	Preregistration for Summer Quarter.
JUNE	3	Last day of classes — Friday.
	6-8	Examinations — Monday-Wednesday.
	8	Graduation.

SUMMER QUARTER, 1977

JUNE	14	Registration — Tuesday.
	15	Classes begin — Wednesday.
	17	Last day to register for credit — Friday.
JULY	4	Holiday — Monday.
	8	Last day to withdraw from class with grade of W.
	8	Mid-term — Friday.
	18-22	Preregistration for the Fall Quarter.
AUGUST	12	Last day of classes — Friday.
	15-17	Examinations — Monday-Wednesday.
	17	Graduation.

FALL QUARTER, 1977

SEPTEMBER	21	Registration — Wednesday.
	26	Classes begin — Monday.
	27	Last day to register for credit — Tuesday.
OCTOBER	31	Last day to withdraw from class with grade of W.
	31	Mid-term — Monday.
NOVEMBER	24-25	Thanksgiving Holidays (begin at 12:30 P.M. on November 23).
DECEMBER	5	Last day of classes — Monday.
	7-9	Examinations — Wednesday-Friday.
	12	Christmas Vacation begins — Monday.

GOVERNING BOARD, ADMINISTRATION & FACULTY

MEMBER OF THE BOARD OF REGENTS

CHARLES A. HARRIS, <i>Chairman</i>	Ocilla
JOHN A. BELL, JR., <i>Vice Chairman</i>	Dublin
RUFUS B. COODY,	Vienna
ERWIN A. FRIEDMAN	Savannah
JESSE HILL, JR.	Atlanta
MILTON JONES	Columbus
JAMES D. MADDOX	Rome
ELRIDGE W. MCMILLAN	Atlanta
CHARLES T. OXFORD	Albany
LAMAR R. PLUNKETT	Bowdon
JOHN R. RICHARDSON	Conyers
JOHN H. ROBINSON, III	Americus
P. R. SMITH	Winder
DAVID H. TISINGER	Carrollton
SAM A. WAY, III	Hawkinsville
CAREY WILLIAMS	Greensboro

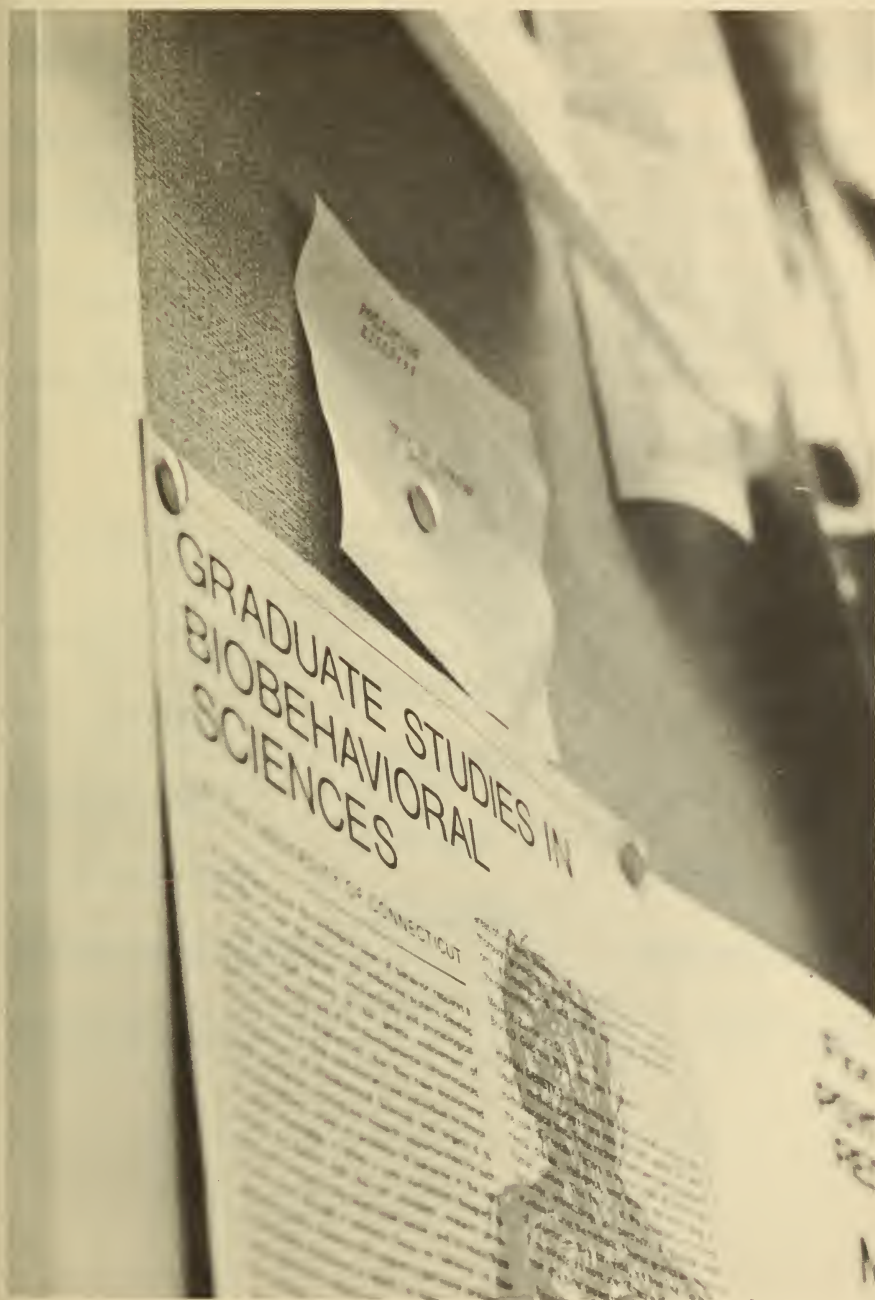
STAFF OF THE BOARD OF REGENTS

GEORGE L. SIMPSON, JR.	Chancellor
JOHN O. EIDSON	Vice Chancellor
JOHN W. HOOPER	Associate Vice Chancellor
HENRY G. NEAL	Executive Secretary
SHEALY E. McCOY	Vice Chancellor—Fiscal Affairs and Treasurer
FRANK C. DUNHAM	Vice Chancellor—Construction and Physical Plant
MARIO J. GOGLIA	Vice Chancellor—Research
JOSEPH C. HAMMOCK	Vice Chancellor Academic Development
HOWARD JORDAN, JR.	Vice Chancellor—Services
HARRY B. O'REAR	Vice Chancellor—Health Affairs
JAMES L. CARMON	Assistant Vice Chancellor— Computing Systems
HASKIN R. POUNDS	Assistant Vice Chancellor
MARY ANN HICKMAN	Assistant Vice Chancellor—Personnel
ROBERT M. JOINER	Assistant Vice Chancellor— Communications

M. COY WILLIAMS *Assistant Vice Chancellor—
Academic Development*

HARRY H. MURPHY, JR. *Director of Public Information*

L. HARLAN DAVIS *Director, Interinstitutional Programs
in International Affairs*



ADMINISTRATIVE OFFICERS OF THE JOINT GRADUATE STUDIES PROGRAM

Savannah State College

Armstrong State College

President

Prince A. Jackson, Jr.

Henry L. Ashmore

Dean of the College

Thomas H. Byers

H. Dean Propst

Associate Dean for Graduate Studies

James A. Eaton

Joseph V. Adams

Comptroller

Prince Mitchell

Jule R. Stanfield

Registrar

John B. Clemmons

George Hunnicutt

Librarian

Andrew J. McLemore

George Sloan

HEADS OF THE GRADUATE DEPARTMENTS

Biology

Margaret C. Robinson

Leslie B. Davenport, Jr.

Business Administration

Mary C. Torian

Emory H. Richards

Chemistry

Willie G. Tucker

Henry E. Harris

Education

Thelma M. Harmond

William W. Stokes

English

Luetta C. Milledge

Hugh Pendexter, III

Mathematics

John B. Clemmons

Richard M. Summerville

History and Political Science

Elmer J. Dean

Roger K. Warlick

THE GRADUATE COUNCIL

The members of the Graduate Council include, in addition to the Presidents, Deans, Librarians and Heads of Graduate Departments named above, the graduate faculty members and graduate students listed below:

1975-1976

Herbert O'Keefe, representing the Business Administration faculty.

Laurent J. Guillou, representing the Biology faculty.

Kamalakar Raut, representing the Chemistry faculty.

Paul E. Ward, representing the Education faculty.

George O. O'Neill, representing the English faculty.

Osmos Lanier, representing the History and Political Science faculty.

Sigmund Hudson, representing the Mathematics faculty.

Charles Holmes — Student.

Jane Perlmutter — Student.

1976-1977

Orange Hall, representing the Business Administration faculty.

K. G. Nambiar, representing the Biology faculty.

Paul Robbins, representing the Chemistry faculty.

Frankie Ellis, representing the Education faculty.

Robert I. Strozier, representing the English faculty.

_____, representing the History and Political Science faculty.

Richard Munson, representing the Mathematics faculty.

_____, Student.

_____, Student.

GRADUATE FACULTY

- JOHN C. ADAMS, Ed.D., Florida State University, *Education (SSC)*
- JOSEPH V. ADAMS, Ph.D., University of Alabama, *Psychology (ASC)*
- STEPHEN AGYEKUM, Ed.D., University of Georgia, *Education (SSC)*
- HAYWARD ANDERSON, D.B.A., Harvard University, *Business Administration (SSC)*
- ADELINE Z. BARBER, Ed.D., University of Georgia, *Education (ASC)*
- JIMMY B. BENSON, Ph.D., Cornell University, *Biology (SSC)*
- RONALD J. BEUMER, Ph.D., University of Arkansas, *Biology (ASC)*
- SARVAN K. BHATIA, Ph.D., Ohio State University, *Business Administration (ASC)*
- NANCY V. BLAND, Ph.D., University of Georgia, *Education (ASC)*
- BLANTON BLACK, Ph.D., University of Georgia, *Political Science (SSC)*
- JOHN BREWER, Ph.D., University of Georgia, *Chemistry (ASC)*
- KENT BROOKS, Ph.D., George Washington University, *English (ASC)*
- CLIFFORD BURGESS, Ed.D., Auburn University, *Education (SSC)*
- THOMAS H. BYERS, Ph.D., Ball State University, *Political Science (SSC)*
- O. CARVER BYRD, Ph.D., Georgia State University, *Business Administration (SSC)*
- C. P. G. CHI, Ph.D., Wayne State University, *Mathematics (ASC)*
- ROSS L. CLARK, Ph.D., Tulane University, *Political Science (ASC)*
- JOHN COCHRAN, Ed.D., University of Georgia, *Education (SSC)*
- WILLIAM E. COYLE, Ph.D., Florida State University, *Political Science (ASC)*
- OSCAR C. DAUB, Ph.D., University of Georgia, *English (SSC)*
- LESLIE B. DAVENPORT, Ph.D., University of Georgia, *Biology (ASC)*
- ELMER J. DEAN, Ed.D., Columbia University, *History and Political Science (SSC)*
- JOHN DUNCAN, Ph.D., Emory University, *History (ASC)*

THOMAS R. EASON, Ph.D., University of Mississippi, *Business Administration (ASC)*

JAMES A. EATON, Ed.D., Columbia University, *Education (SSC)*

FRANKIE ELLIS, Ed.D., University of Texas, *Education (SSC)*

JACOB ENGELHARDT, Ph.D., New York University *Mathematics (SSC)*

STANLEY ETERSQUE, Ed.D., West Virginia University, *Mathematics (ASC)*

IDA J. GADSDEN, Ph.D., University of North Carolina, *Education (SSC)*

JIMMIE F. GROSS, Ph.D., University of Georgia, *History (ASC)*

LAURENT J. GUILLOU, JR., Ph.D., Louisiana State University, *Biology (ASC)*

ORANGE HALL, Ph.D., University of Florida, *Business Administration (ASC)*

THELMA M. HARMOND, Ph.D., Ohio State University, *Education (SSC)*

JOHN R. HANSEN, Ed.D., University of Georgia, *Mathematics (ASC)*

HENRY E. HARRIS, Ph.D., Georgia Institute of Technology, *Chemistry (ASC)*

LAWRENCE HARRIS, Ph.D., University Santo Tomas, Manila, *History and Political Science (SSC)*

JERALINE HARVEN, Ed.D., Indiana University, *Business Education (SSC)*

JOHN S. HINKEL, Ph.D., University of South Carolina, *Mathematics (ASC)*

JOHN HOUSTON, Ph.D., Purdue University, *Mathematics (SSC)*

ANNE L. HUDSON, Ph.D., Tulane University, *Mathematics (ASC)*

SIGMUND HUDSON, Ph.D., Tulane University, *Mathematics (SSC)*

FRISSELL R. HUNTER, Ph.D., State University of Iowa, *Biology (SSC)*

JEFFREY JAMES, Ph.D., Howard University, *Chemistry (SSC)*

JAMES LAND JONES, Ph.D., Tulane University, *English (ASC)*

DALE Z. KILHEFNER, Ph.D., Pennsylvania State University, *Mathematics (ASC)*

- JOSEPH I. KILLORIN, Ph.D., Columbia University, *English (ASC)*
- PULLABHOTIA V. KRISHNAMURTI, Ph.D., Texas A. and M. University, *Biology (SSC)*
- MICHAEL A. LABURTIS, Ph.D., University of Arkansas, *Business Administration (ASC)*
- MILDRED W. LANDRUM, Ph.D., Georgia State University, *Business Education (ASC)*
- JOSEPH LANE, Ph.D., University of Georgia, *Psychology (ASC)*
- CORNELIA V. LAWSON, Ed.D., University of Arkansas, *Education (SSC)*
- MARGARET LAWSON, Ph.D., University of North Carolina, *English (ASC)*
- CHARKS LASKA, Ph.D., Syracuse University, *Mathematics (ASC)*
- GERARD F. LENTINI, Ed.D., University of Georgia, *Education (ASC)*
- ELIZABETH LUNZ, Ph.D., Tulane University, *English (SSC)*
- ISIAH McIVER, Ph.D., Loyola University, *History (SSC)*
- MICHAEL K. MAHER, Ph.D., University of Georgia, *English (SSC)*
- JOHN C. MCCARTHY, Ph.D., University of Georgia, *Political Science (ASC)*
- MANCHERY P. MENON, Ph.D., University of Arkansas, *Chemistry (SSC)*
- LUETTA C. MILLEDGE, Ph.D., University of Georgia, *English (SSC)*
- RICHARD E. MUNSON, Ph.D., Rutgers University, *Mathematics (ASC)*
- K. G. NAMBIAR, Ph.D., Texas A. & M. University, *Biology (SSC)*
- JAMES S. NETHERTON, Ph.D., University of Virginia, *Mathematics (ASC)*
- S. LLOYD NEWBERRY, Ed.D., University of Georgia, *Education (ASC)*
- JOHN F. NEWMAN, Ph.D., University of Florida, *Political Science (ASC)*
- HERBERT O'KEEFE, Ph.D., Georgia State University, *Accounting (SSC)*

- GEORGE O. O'NEILL, Ph.D., University of Southern California, *English (SSC)*
- ROBERT M. PATTERSON, Ph.D., Vanderbilt University, *History (ASC)*
- HUGH PENDEXTER, III, Ph.D., University of Pennsylvania, *English (ASC)*
- ALLEN L. PINGEL, Ph.D., University of South Carolina, *Biology (ASC)*
- H. DEAN PROPST, Ph.D., Peabody College, *English (ASC)*
- KAMALAKAR RAUT, Ph.D., University of Oklahoma, *Chemistry (SSC)*
- STEVE YOUNG RHEE, Ph.D., University of Missouri, *History (ASC)*
- EMORY H. RICHARDS, Ph.D., Ohio State University, *Business Administration (ASC)*
- PAUL E. ROBBINS, Ph.D., Georgia Institute of Technology, *Chemistry (ASC)*
- A. DORIS ROBINSON, Ph.D., University of Oklahoma, *Education (SSC)*
- MARGARET C. ROBINSON, Ph.D., Washington University, *Biology (SSC)*
- HERMAN SARTOR, Ph.D., University of Wisconsin, *Education (SSC)*
- CHARLES T. SHIPLEY, Ph.D., University of Nebraska, *Mathematics (ASC)*
- RICHARD SIMENSEN, Ph.D., University of Maryland, *Education (ASC)*
- JOHN E. SIMPSON, Ph.D., University of Georgia, *History (SSC)*
- HARPAL SINGH, Ph.D., University of Tennessee, *Biology (SSC)*
- R. B. SINGH, Ph.D., Patna University, *Business Administration (SSC)*
- STEVEN SMITH, Ph.D., Vanderbilt University, *History (SSC)*
- JACQUELYN STEPHENS, Ed.D., Oklahoma University, *Education (SSC)*
- WILLIAM W. STOKES, Ed.D., University of Florida, *Education (ASC)*

- CEDRIC STRATTON, Ph.D., Birbeck College, London, England,
Chemistry (ASC)
- ROBERT I. STROZIER, Ph.D., Florida State University, *English (ASC)*
- RICHARD SUMMERVILLE, Ph.D., Syracuse University,
Mathematics (ASC)
- JOSEPH W. SUMNER, Ph.D., University of North Carolina,
Education (SSC)
- FRANCIS M. THORNE, Ph.D., University of Georgia, *Biology (ASC)*
- MARY C. TORIAN, Ed.D., New York University, *Business Administration (SSC)*
- WILLIE G. TUCKER, Ph.D., University of Oklahoma, *Chemistry (SSC)*
- HANES WALTON, Ph.D., Howard University, *History (SSC)*
- PAUL E. WARD, Ed.D., University of Georgia, *Education (ASC)*
- ROGER K. WARLICK, Ph.D., Boston University, *History (ASC)*
- E. K. WILLIAMS, Ph.D., New York University, *History (SSC)*
- BERNARD L. WOODHOUSE, Ph.D., Howard University, *Biology (SSC)*

HISTORY, PURPOSE AND ORGANIZATION

HISTORY

Graduate Studies in Savannah were initiated at the beginning of the summer quarter 1968, when Savannah State College, with the approval of the Board of Regents, began offering courses leading to the degree of Master of Science in Elementary Education. The program operated as an independent program for thirteen quarters, enrolling well over two hundred students. It was approved by both the Southern Association of Colleges and Schools and the Georgia State Board of Education. Seventy-five persons received master's degrees under this program.

Beginning with the fall quarter of 1971, Savannah State College joined with Armstrong State College to offer a joint program of graduate work. The combined faculties, library holdings, and facilities of the two colleges made possible the expansion of the graduate program to include a master's degree in business administration as well as the program in elementary education. In the spring of 1972, the Board of Regents approved the addition of secondary options in the Master of Education program. The Joint Graduate Studies Program has been fully accredited by the Southern Association of Colleges and Schools, with its degree programs in Education approved by the Georgia State Department of Education.

PURPOSE

The philosophical base of the Joint Graduate Studies Program is an affirmation of the dignity and worth of the individual. Implicit in this philosophy is a realization that modern man must be productive, articulate, and proactive. The Program is dedicated to service through: educational programs, community involvement, and faculty and student research, scholarship and creativity. By offering advanced preparation to those who professionally serve in the public schools, the Joint Graduate Studies Program contributes to the development of teachers who possess the qualities of character, commitment, and professional promise, and through these teachers, to the children they serve. By offering advanced professional training in management and administration, the Program serves individuals for positions of responsibility in business, industry, government, and education.

ORGANIZATION AND ADMINISTRATION

The Joint Graduate Studies Program is designed to insure the equal involvement of the two Colleges in the administration of the program and the instruction offered within the program. Students are required to take one-half of the courses in their degree programs at Savannah State College and one-half of the courses at Armstrong State College. The graduate degrees, bearing the signatures of both Presidents, are awarded jointly by the two Colleges. The location of the graduation ceremonies alternates between the two Colleges.

The policy-making body for the Joint Graduate Studies Program is the Graduate Council. The Graduate Council consists of: the Deans of Graduate Studies of the two Colleges; the Department (or Division) Heads of those departments (or divisions) of the two Colleges which offer graduate programs; one graduate faculty member for each combined department (or division) of the two colleges offering a graduate program, this member being elected by the combined graduate faculty of the departments (divisions) concerned; and two graduate students selected by the Graduate Deans. The Deans of the Colleges and the Presidents of the two colleges hold *ex officio* memberships on the Council.

Programs are developed by the joint departmental faculties and approved by the Graduate Council for recommendation to the Presidents. The curriculum, the appointment of graduate faculty, the various academic policies (including policies on admissions, course credits, degree requirements, etc.) are acted on by the Graduate Council for recommendation to the Presidents. The combined resources of the academic departments and libraries and the campus facilities of the two Colleges are utilized in support of the Joint Graduate Studies Program.

Administrative operations of the program are the responsibility of the two Graduate Deans and of the Department or Division Heads on the two campuses. Each of the Graduate Deans serve a two-year term, on an alternating basis, as the Coordinating Dean for Graduate Studies. The Heads of Departments or Divisions alternate on a yearly basis as Departmental Coordinators. The various administrative officers of the two Colleges give further support to the program.

FEES, REFUNDS, & FINANCIAL ASSISTANCE

ALL FEES ARE SUBJECT TO CHANGE AT THE END OF ANY QUARTER.

APPLICATION FEE

An application fee of \$10.00 is paid by each graduate student at the time of initial application for admission. This fee is not required of graduates from either Armstrong State College or Savannah State College. The acceptance of the application fee does not constitute acceptance of the student into the graduate program. This fee, which is paid at Armstrong State College, is not refundable.

MATRICULATION FEE

The matriculation fee for part-time students is \$12.00 per quarter hour; thus, the matriculation fee for one five (5) hour course is \$60.00. Students carrying 12 credit hours or more will pay \$145.00.

OUT-OF-STATE TUITION

Non-residents of Georgia carrying 12 credit hours or more must pay a fee of \$238.00 per quarter in addition to all regular fees. Students carrying less than 12 credit hours in a quarter who are not legal residents of the State of Georgia will pay at the rate of \$20.00 per quarter hour for out-of-state tuition, in addition to matriculation fees. For residency requirements as established by the Board of Regents, see the *Bulletin and General Catalogue* of either Savannah State College or Armstrong State College.

STUDENT ACTIVITY FEE

All students enrolled for six quarter hours or more must pay an Activity Fee of \$15.00 per quarter.

ATHLETIC FEE

All students must pay an Athletic Fee of \$8.00 per quarter.

LATE REGISTRATION FEE

A late registration fee of \$4.00 will be charged to students registering on the date listed in the catalogue as the date on which classes begin. A fee of \$5.00 will be charged for registrations completed on the date listed in the catalogue as the "last day to register for credit."

CHANGE OF SCHEDULE FEE

A fee of \$2.00 is charged for a change of schedule after the registration cards have been processed. No charge is made if the change is initiated by the College.

GRADUATION FEE

Each candidate for graduation must pay a graduation fee of \$25.00 prior to his or her graduation. This fee must be paid at Savannah State College. For further information, inquire at the Graduate Offices.

REFUNDS

Refunds of the matriculation fee and of non-resident tuition will be made only upon written application for withdrawal from school. No refunds are made for simply dropping a course. Refunds must be processed by the College at which fees were paid. Privilege fees are not refundable. Both Colleges follow the refund policy of the Board of Regents as stated below:

Students who formally withdraw on the date of scheduled registration or during one week following the scheduled registration date are entitled to a refund of 80% of the fees paid for that quarter. Students who formally withdraw during the period between one and two weeks after the scheduled registration date are entitled to a refund of 60% of the fees paid for that quarter. Students who formally withdraw between two and three weeks after the scheduled registration date are entitled to a refund of 40% of the fees paid for that quarter. Students who formally withdraw during the period between three and four weeks after the scheduled registration date are entitled to a refund of 20% of the fees paid for that quarter. Students who withdraw after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of the fees paid for that quarter.

DORMITORY FEES AT SAVANNAH STATE COLLEGE

Students who occupy dormitory facilities at Savannah State College should refer to the Savannah State general *Bulletin* for information on fees and should contact the Office of Student Affairs at Savannah State for assistance.

FINANCIAL ASSISTANCE

A limited number of graduate assistantships are available to qualified students; these assistantships are awarded and administered by the individual graduate departments of the two Colleges. Students may seek information from the individual departments about assistantships but are advised to make a formal request for an assistantship only after their admission to the Graduate Program with Regular Admission status.

Students are invited to contact the Offices of Financial Aids at the two Colleges for information on federal and state programs of financial assistance to college students.

VETERANS BENEFITS

Both campuses provide graduate students with veteran's services through Offices of Veterans Affairs. Information of interest to veterans can be obtained by writing or calling the Office of Veteran Affairs at either Armstrong State College or Savannah State College.

Once accepted into the graduate program, the veteran should contact one of the offices for processing instructions. Since processing time varies, a first quarter student should expect a four to six week delay in receiving the first benefit check. First quarter student veterans should consider this delay when making financial arrangements to attend school.

For purposes of G.I. Bill benefits, ten (10) quarter hours is considered to be a full load; a load of five (5) graduate quarter hours entitles the graduate student to half-time benefits.

ADMISSION TO GRADUATE STUDIES

Graduate course work provides an opportunity for continuing professional growth and competency, for expanding professional and cultural backgrounds, and for extending knowledge and understanding in an area of specialty. Qualified students may take advantage of these educational opportunities without necessarily seeking a degree. Admission to one of the degree programs of the Joint Graduate Studies Program is a serious academic venture; therefore, prospective students are expected to show evidence of high academic achievement and potential. Students who enroll as degree-seeking students must meet more rigorous admission standards than those students who do not seek a master's degree.

REQUIREMENTS

Applicants desiring admission on a degree-seeking status must present satisfactory undergraduate academic records and satisfactory scores on appropriate admissions examinations. Some of the graduate degree programs have specialized test requirements and undergraduate course requirements for degree-seeking students. Refer to the departmental programs for specific information on these requirements.

General requirements for degree seeking students include the following: business administration applicants must provide satisfactory scores on the Graduate Management Admissions Test (GMAT); applicants in all M.Ed. programs must provide satisfactory scores on either the Aptitude Test of the Graduate Record Examination (GRE) or the Common Examination of the National Teacher Examination (NTE). Satisfactory undergraduate grades must be presented by degree seeking students.

Applicants for admission to M.Ed. programs must present satisfactory scores on either the appropriate area examination of the NTE or the appropriate advanced test of the GRE. For details of this requirement, consult the appropriate departmental entry in the catalogue. These applicants must also present a recommendation from the school in which they have interned or have been employed before they may be given degree seeking status. (See following section on Admission Procedures, item 3.)

Applications for the above examinations are usually available at the two Colleges and will be given to students who come to the Colleges to obtain them. Students who wish to write for an application form or to submit an application for these examinations should contact: Educational Testing Service, Princeton, New Jersey,

08540. Students should request that their test scores be sent to the Graduate Studies Office, Armstrong State College, Savannah, Georgia 31406.

TYPES OF ADMISSION

Regular Admission (a degree-seeking classification)

Regular Admission means that a student is admitted to the Joint Graduate Studies Program with full graduate status.

A student who has earned a baccalaureate degree from an accredited college, who has completed all of the prerequisites for his proposed major area, and who meets the other requirements of the Graduate Program may be admitted on Regular Admission status. These requirements include minimum undergraduate grade-point averages in combination with certain minimum test scores. These grade-point averages range from a minimum G.P.A. of 2.5 to a minimum of 3.0 (on a 4.0 scale) and must be combined with minimum test scores on the GMAT or the GRE or the NTE depending on the degree program (see above). The combinations of G.P.A. and test score constitute a numerical standard of admission and include intermediate points on a scale with an inverse relation between GPA and test scores.

For area test scores required by any department, see the appropriate departmental entry.

Conditional Admission (a degree-seeking classification)

Conditional Admission means that a student is admitted to the Joint Graduate Studies Program pending his meeting certain conditions before achieving full graduate status (i.e., Regular Admission).

For Conditional Admission, a student must hold a baccalaureate degree and meet the other admission requirements of the Graduate Program. These requirements include minimum undergraduate grade-point averages in combination with certain minimum test scores. These grade-point averages range from a minimum G.P.A. of 2.2 to a minimum of 2.7 (on a 4.0 scale) and must be combined with minimum test scores on the GMAT or the GRE or the NTE depending on the degree program (see above). The combinations of GPA and test score constitute a numerical standard of admission and include intermediate points on a scale with an inverse relation between GPA and test scores.

For area test scores required by any department, see the appropriate departmental entry.

A student admitted under the Conditional category must consult with the appropriate departmental coordinator for an appraisal of his academic readiness for graduate work in the program within that department. The student may be required to remove any specific deficiencies that are ascertained by taking undergraduate supporting courses before he is allowed to attempt graduate courses within that program.

Any conditionally admitted student who has completed fifteen (15) quarter hours of approved, consecutive graduate course work — ten (10) hours of which must be in the academic major — with no grade less than B may apply for and subsequently will receive Regular Admission status. Upon the completion of twenty-five (25) quarter hours of approved course work — fifteen (15) hours of which must be in the academic major — with a B average or better, the student achieves Regular Admission status.

If, upon completing twenty-five (25) quarter hours of course work, the student does not have a B average or better (i.e., 3.0 on a 4.0 system), he or she will be dropped as a degree-seeking student.

Special Admission

The special admission classification is designed for those students who may not wish to pursue a graduate degree, including teachers whose main purpose is to obtain credits necessary for teacher certification. Such students may be admitted to graduate courses under conditions specified by the Graduate Office. These conditions ordinarily include documentary evidence of a baccalaureate degree and may include consultation with the department in which the student intends to study.

If the student should later decide to apply for admission as a degree-seeking student, he must submit a written request to the Graduate Office and must meet all of the requirements set forth for degree-seeking status. No more than ten (10) hours earned while enrolled as a Special Admissions Student may be applied toward a degree.

Transient Student

Transient students must have written permission from their advisers or other personnel at the graduate school in which they are

enrolled in order to enroll in the Joint Graduate Studies Program. They must also submit the application-for-admission form and the \$10 fee as described below.

READMISSIONS

Any student in the Joint Graduate Studies Program who did not matriculate (i.e., register) during the quarter immediately preceding the quarter in which he next intends to matriculate must process a readmission form with the Registrar's Office. The only students exempted from this requirement are those students who are admitted to the Program in the quarter immediately preceding the quarter of intended matriculation. For further information, inquire at the Graduate Offices or Registrar's Office. (Note: through Summer Quarter of 1978, the Registrar at Savannah State College will handle matriculations and readmissions for the Joint Graduate Studies Program.)

ADMISSION PROCEDURES

The Graduate Office at Armstrong State College is the graduate admissions office. All admissions documents should be sent to this office for processing.

The following materials and procedures are part of the requirements for admission to the Joint Graduate Studies Program.

1. The application-for-admission form, available in the Graduate Office at either College, must be completed and submitted.
Required of all applicants.
2. Three (3) official transcripts showing all college credits earned for the undergraduate degree should be sent directly from the college which awarded the degree to the Graduate Office at Armstrong State College. *Required of all applicants except transient students who may submit letter of authorization from their graduate school.*
3. Test scores and completed recommendation forms (these forms available in the two Graduate Offices) must be submitted.
Required of degree-seeking students only; Special Admissions students may be exempted.
4. A ten dollar (\$10) application fee is required of all students, except graduates of Savannah State College and Armstrong State College.

All materials and documents should be submitted as soon as possible but *at least twenty (20) days prior* to the registration date of the quarter a student enrolls. Action can be taken on applications for admission only after all of the required materials have been received.

ADMISSION TO GRADUATE STUDY DOES NOT IMPLY AUTOMATIC ACCEPTANCE OF THE STUDENT AS A CANDIDATE FOR ANY MASTER'S DEGREE. SEE SECTION ON CANDIDACY FOR DEGREE.



ACADEMIC REGULATIONS

STUDENT RESPONSIBILITY

The student is charged with the responsibility for taking the initiative in meeting all academic requirements and in maintaining a careful check on his or her progress toward earning a degree. The student is responsible for discharging his or her obligations to the business offices and the libraries and for adhering to the rules and regulations appertaining to graduate students in particular and to all students enrolled in a unit of the University System of Georgia. Graduate student academic regulations are set forth in this bulletin; for information regarding general regulations of students using the property and facilities of Savannah State College or Armstrong State College, refer to the general bulletins and student publications of the two Colleges. It is the student's responsibility to abide by catalogue requirements. A student's claim that he or she has been granted an exception to these requirements must be documented before the merits of the claim can be evaluated.

ACADEMIC ADVISEMENT

Upon admission to the graduate program, the student will be referred to a Departmental or Program Coordinator for adviser assignment. *Consultation with the assigned adviser is required prior to registration.* Each student must process appropriate advisement papers which are available from his or her assigned adviser and which provide the adviser clearance required for registration.

Transient students report to the Graduate Office for advisement and adviser clearance.

Special Admissions students obtain adviser clearance by processing the Special Admissions advisement form with their assigned advisers. During the quarter in which a Special Admissions student achieves degree-seeking status, he or she must process the Program of Study form.

Degree-seeking students, both Regular and Conditional Admissions students, must process the Program of Study form with their assigned advisers no later than the end of their first quarter of enrollment. A temporary adviser clearance statement may be provided by the adviser which will be valid only for the student's initial registration. This temporary clearance should be processed on a special advisement form, with appropriate notations made to indicate that it is temporary.

The Program of Study shows the courses the student will take in his or her degree program, transfer courses that *might* apply to the degree, and prerequisite courses or other prerequisites. The Program of Study must be followed by the student as he works toward a degree. However, the student can take courses additional to those on his Program of Study, and he may enroll in the courses on his Program of Study during quarters other than those which might be shown on his Program of Study form. Moreover, the student may officially modify his Program of Study with the concurrence of his adviser and other appropriate personnel by processing the form for Modification of Program of Study. These forms are available from the advisers.

Students should note that any departure from the catalogue requirements for a degree must be approved by the Graduate Dean.

REGISTRATION

Before a student may register for graduate courses in the Joint Graduate Studies Program he must be formally admitted as a graduate student, or if his circumstances require, be readmitted (see section on Admissions, paragraph on Readmissions). Through the Summer Quarter of 1978, registration will occur on the Savannah State campus.

TRANSFER OF GRADUATE CREDITS

A maximum of thirty (30) hours of credit may be transferred from another institution, provided:

1. that each course equates with a course in the curriculum of the Joint Graduate Program or is an acceptable elective.
2. that the credit was earned in an accredited graduate program.
3. that a grade of B or better was earned in each course.
4. that the credit was earned within the past five years.
5. that no more than fifty percent of the required credits shall be transferred for use towards a master's degree (i.e., no more than 50% of either the required professional education credits or other required credits).

For additional information on the amount of credit transferable for a particular degree program, refer to the appropriate departmental entry.

PROCEDURES FOR PROCESSING TRANSFER CREDITS

Requests by students to receive transfer graduate credit must be supported by three (3) copies of the graduate transcript showing the credits requested. The formal and final request for receiving transfer credit is part of the Application for Candidacy which the student must process upon the completion of 25 hours of graduate work. This application is obtained in the Graduate Offices.

Advisement on transfer of credit is routinely provided on the Program of Study form which every degree-seeking student must complete with his adviser in his first quarter of enrollment. Final approval of transfer credits is established by the Graduate Dean's approval of the student's Application for Candidacy.

Prospective students may write to the Department Coordinator in their area of study to obtain advisement on transfer of credit.

GRADUATE COURSES

Courses numbered 500 to 599 are open to both undergraduate and graduate students. In such courses, the quantity and quality of work required of the graduate students will be on the same level as that required in those courses offered exclusively for graduates. Courses numbered 600 to 699 will be open only to graduate students. Candidates for master's degrees must take at least fifty percent of their courses at the 600 level.

GRADUATE CLASS REGULATIONS AND SCHEDULES

Graduate classes are conducted in conformity with the general academic policies of the Board of Regents and of the Joint Graduate Studies Program and the regulations of the Campus on which a given class is taught. Specific class requirements, including attendance requirements and requirements for grades are set by the instructor for each class.

The two sponsoring Colleges reserve the right to cancel classes and to adjust class schedules.

GRADES

In accordance with the policies of the Board of Regents, the Joint Graduate Studies Program is on a 4.0 grade point system. The only grades approved by the Board of Regents for computing the grade point averages of students are: A—4, B—3, C—2, D—1, F—0, and WF (withdrew failing) —0. The Board of Regents has also approved for

uses other than for computing grade point averages, the following symbols: I—incomplete; W—withdraw without penalty; V—audit; K—credit for a course by examination; and S—satisfactory and U—unsatisfactory which are applicable only to theses, practicums, internships, and proficiency requirements.

In the Joint Graduate Studies Program grades assigned are A, B, C, D, F (failure), I (incomplete), W (withdraw with no penalty), and WF (withdraw failing). The grade of W does not enter into computing a student's grade point average.

Stipulations applicable to other symbols used in the Joint Graduate Studies Program include:

I—incomplete. May be awarded by an instructor, who will also stipulate the conditions for its removal. Any grade of I which has not been removed by completing the course after three (3) quarters of matriculating in residence after the I was awarded shall become an automatic F; if the I has not been removed within one calendar year after the I was awarded, regardless of intervening matriculations, the I shall become an F.

W—withdrawal without penalty. May be awarded by an instructor up to the mid-quarter period in a course. Regents' policy stipulates that "Withdrawals without penalty will not be permitted after the mid-point of the total grading period (including final examinations) except in cases of hardship as determined by the appropriate official of the respective institution."

WF—withdraw failing. May be awarded by an instructor anytime that a student withdraws from a course after the drop/add period; mandatory after midquarter except for hardship cases as stipulated above for grades of W.

V—audit. Use of this symbol is subject to the discretion of the individual joint graduate departments, and the departments may require that a student receive the permission of the instructor to audit a course prior to registering for the course. Moreover, *an auditing student must* pay the usual fees, *must* register for the course, and *may not* transfer from audit to credit status (or vice versa).

S and U—satisfactory and unsatisfactory; see above. Specific courses receiving these grades are identified in departmental course listings. Comprehensive examinations given these grades also.

K—credit by examination. Use of this symbol is subject to the discretion of the individual joint graduate departments.

NOTICE: Students expecting to receive grades of V or K must insure that they are enrolled in an appropriate course or activity for which V or K grades are awarded by the appropriate department. If this catalogue does not show in the departmental entries that the given departments have authorized the use of V or K, then a student expecting to receive V in a course should obtain written verification from the appropriate instructor prior to registering for the course that V will be awarded.

ACADEMIC PROBATION AND STANDING

Any student who falls below a 3.0 (B) average shall be on academic probation.

Any student who is admitted to Conditional Admission status and who does not achieve a 3.0 average or better upon completing 25 hours shall be dropped as a degree-seeking student and be placed on Special status. Any Regular Admission student who has less than a 3.0 average after completing 25 *or more* hours shall be placed on “regular admission—probation status” and shall, thereafter, be required to achieve grades of B or better in *all* courses in order to maintain this status and must achieve a 3.0 average in order to return to Regular Admission status. Any student on “regular admission—probation status” who earns less than a B in any course or who accumulates 75 hours while still on this status shall be dropped as a degree-seeking student and shall be placed on Special status.

COURSE LOAD LIMITATION

A full-time graduate student is expected to carry no more than fifteen (15) hours per quarter. The course load for employed students should be appropriately reduced in consultation with their advisers. Students on academic probation or on Conditional Admissions status should carefully plan their course loads in consultation with their advisers.

WITHDRAWAL, DROPPING COURSES, AND ADDING COURSES

Withdrawal is, in the technical sense, dropping all courses and processing a formal withdrawal through the Office of Graduate Studies which issues a withdrawal form. A student may withdraw from school (or drop a single course) at any time during the quarter.

Only by formally withdrawing, however, can a student become eligible for the refund of fees as explained in the section on fees. *The student bears the responsibility* of contacting the graduate office to effect a withdrawal and of contacting his professor(s) to determine what grade(s) he will receive (W or WF). In order to expedite any refund due, the student must initiate his withdrawal on the same campus where he paid fees.

Dropping a course should also be formalized through the Graduate Office which will process a drop/add slip. If a student is taking only one course, the drop becomes, technically, a withdrawal, and a refund may be due. The student is responsible for contacting his instructor concerning the grade he will receive (W, WF).

Adding a course is also formalized through the Graduate Office which will process a drop/add slip. Courses may be added only during the late registration days at the beginning of the quarter and not at any other time during the quarter. The student must pay the appropriate fee for the additional course, unless a course comparable in credit hours is being dropped simultaneously.

The Graduate Council reserves the right to request the withdrawal of any student at any time during his course of studies if he does not meet the required standards of scholarship, or if he cannot remain in the program without endangering his own health or the health of others, or if he fails in any way to meet the standards of the Joint Graduate Studies Program.

CATES COURSES

Savannah State College and Armstrong State College participate in the Coastal Area Teacher Education Service, a consortium of area public school systems and institutions of the University System of Georgia offering graduate and undergraduate courses in teacher education. The Associate Dean for Graduate Studies at Savannah State College approves the acceptance of CATES courses for credit toward a degree program in the Joint Graduate Studies Program.

A student who wishes to apply CATES course credit to his degree program must obtain approval from his adviser to take a course for degree credit *prior* to taking the course. Without this prior approval, the course is subject to being treated as a transfer course, in which case, the Transfer of Graduate Credits policies and procedures described in this *Bulletin* will be followed.

DEGREES AND GENERAL DEGREE REQUIREMENTS

DEGREES OFFERED

The following degrees are offered in the Joint Graduate Studies Program:

- Master of Business Administration
- Master of Education in Business Education
- Master of Education in Biology
- Master of Education in Chemistry
- Master of Education in Elementary Education
- Master of Education in Early Childhood Education
- Master of education in Special Education—Behavior Disorders
- Master of Education in English
- Master of Education in Mathematics
- Master of Education in History
- Master of Education in Political Science

The sponsoring colleges have approved the addition to the Joint Graduate Studies Program of Master of Education degree programs in Industrial Arts Education and Science Education, and of Master of Science degree programs in Chemistry and Criminal Justice. Approval for the offering of these degree programs is pending action by the Board of Regents of the University System of Georgia. Any student who might be interested in one of these programs should request further information on the status of the program from the Office of the Associate Dean for Graduate Studies at either Savannah State College or Armstrong State College.

TIME LIMITATION

Students working toward a master's degree must complete all requirements for the degree within a period of not more than six years from the date of admission to the degree program. Extension of time may be granted by the Graduate Council, upon recommendation of the student's major department, but only in cases of unusual circumstances.

COURSE AND RESIDENCE REQUIREMENTS

A minimum of sixty (60) quarter hours of graduate credits must be earned for the Master of Education degree. Credit for a minimum of thirty (30) quarter hours must be earned in residence. Courses to be counted for residence may be accumulated on a full-time or part-time basis.

Satisfactory completion of sixty (60) quarter hours of approved graduate credits is required for the Master of Business Administration degree; thirty (30) quarter hours must be earned in residence.

BALANCE OF COURSES

Two forms of balance in accumulating courses must be adhered to by degree-seeking students. First, at least fifty percent (50%) of the courses earned for a degree must be at the 600 level.

Second, fifty percent (50%) of the courses applied to a degree must be earned at each of the two Colleges (Savannah State and Armstrong State). This balance of courses between the two Colleges includes a 50-50 balancing of the required courses and a 50-50 balancing of the elective courses in each degree program. Minor deviations from this strict 50-50 balancing of courses may be allowed where an odd number of courses in either the required or the elective category or in both categories requires the deviation. The departmental degree program descriptions identify the 600 level courses and provide additional guidance on balancing courses.

DEGREE CANDIDACY

Upon successful completion of twenty-five quarter hours of graduate work, *and at least one quarter prior to making application for the degree*, the student is required to file an application for admission to candidacy. The student will submit four copies of the completed application to his major department. Application forms are available in the Graduate Offices on both campuses.

Approval of the application will be based upon verification that the student:

1. has been admitted to full graduate status (i.e., Regular Admission).
2. has maintained a minimum of a "B" average in all work attempted.

APPLICATION FOR THE DEGREE

At the time specified on the academic calendar, the student must file an application for the appropriate master's degree with his major department. Note that the application for the degree must be preceded by the application for candidacy by at least one quarter. Application forms are available in the Graduate Offices.

SUMMARY OF GENERAL REQUIREMENTS FOR THE MASTER'S DEGREE

General regulations for obtaining a master's degree from the Joint Graduate Studies Program are summarized as follows:

1. Admission to full graduate status (i.e., Regular Admission).
2. Admission to candidacy for the degree.
3. Satisfactory completion of sixty (60) quarter hours of approved graduate level course work.
4. Meeting T-5 certification requirement (M.Ed. program only).
5. Maintenance of "B" average.
6. Satisfactory completion of a comprehensive examination.
7. Filing an application for the degree at the time specified.

TEACHER CERTIFICATION

The Master of Education degree is designed to comply with the requirements for teacher certification at the fifth level in the various areas of specialization. This degree will be granted only to students who qualify for T-5 certification (or equivalent certification for other states). This requirement entails meeting T-4 certification requirements (Georgia).

Students who use graduate credits to meet T-4 certification requirements may be required to take graduate courses beyond the 60 hours required for the M.Ed. degree in order to meet T-5 certification requirements. Although the M.Ed. degree programs in the Joint Graduate Studies Program are designed to meet the requirements for approved programs for T-5, the designs assume that the student has already met T-4 certification requirements. All students without T-4 certification who are entering an M.Ed. Program (these students are referred to as "late decision" students)

should obtain a written statement of requirements from the State Department of Education and should consult with the Education Department at either College concerning specific courses to meet those requirements.

Since the M.Ed. programs in the Joint Graduate Studies Program require 60 hours, which is 15 more than the 45 minimum required for the T-5 by the State Education Department, 15 of the 60 graduate hours may be used to fulfill T-4 certification requirements. However, none of the 15 hours so used can then be applied toward meeting the 45 hours specified for the T-5. These 45 required hours include 15 hours of professional education courses (specifically: 5 in educational research, 5 in foundations courses, and 5 in curriculum and methods), plus 25 hours of major field courses, plus any other 5 hours to make the total of 45 hours.

In order to comply with the State Department of Education *Criteria for Advanced Study*, "the late decision student's first encounter with professional study (must) include the essentials of the undergraduate criteria for professional study." These criteria cover four areas in professional education rather than just three. These four are: 1) social foundations, 2) learning and learners, 3) teaching strategies, curriculum and media, and 4) professional laboratory experiences. In meeting these requirements, the late decision student will need to consult with the Education Departments.

Detailed information concerning programs and procedures relating to graduate teacher certification may be obtained from the Office of Graduate Studies or from the Department of Education at either College.

DEPARTMENTS: PROGRAMS AND COURSES

Departmental requirements covering admissions, prerequisite courses, and other aspects of the programs of study are described in this section of the Bulletin.

PROGRAM COORDINATORS

For each program of study, the department head on one campus serves as the Coordinator. The Coordinators alternate on a yearly basis between Armstrong State College and Savannah State College. The Coordinators terminate their roles in September of each year and, therefore, the 1977 Coordinators begin their service in September, 1976.

The Departmental Coordinators for 1976 and 1977 are:

- Business Administration: Dr. Emory H. Richards (ASC), 1976 — Dr. Mary Torian (SSC), 1977.
- Business Education: Dr. Mary Torian (SSC), 1976 — Dr. Emory H. Richards (ASC), 1977.
- Biology: Dr. Margaret Robinson (SSC), 1976 — Dr. Leslie Davenport (ASC), 1977.
- Chemistry: Dr. Willie Tucker (SSC), 1976 — Dr. Henry Harris (ASC), 1977.
- Elementary Education: Dr. Thelma Harmond (SSC), 1976 — Dr. William Stokes (ASC), 1977.
- English: Dr. Hugh Pendexter (ASC), 1976 — Dr. Luetta Milledge (SSC), 1977.
- History and Political Science: Dr. Elmer Dean (SSC), 1976 — Dr. Roger Warlick (ASC), 1977.
- Mathematics: Mr. J. B. Clemmons (SSC), 1976 — Dr. Richard Summerville (ASC), 1977.

COURSES

Graduate courses are listed and described in each departmental section. The following course numbering system is used: courses numbered 500-599 may be taken by undergraduate or graduate students and, in some cases, are courses that are cross-listed as both 400 and 500 courses. Courses numbered 600-699 or higher are for graduate students only.

Each course listed shows the departmental identification, the course number, the course name, a code number and the campus location. The code number indicates: with the first number, the hours of lecture per week; with the second number, the hours of lab per week; and with the third number, the *quarter hours of credit* for the course. Example: Chemistry 522. Inorganic Chemistry (3-0-3).

Statements on prerequisites, campus location and descriptions follow the course numbers.

BUSINESS ADMINISTRATION

FACULTY

Dr. Emory H. Richards, Department Head, (ASC); Dr. Mary Torian, Department Head, SSC); Dr. Anderson (SSC); Dr. Bhatia (ASC); Dr. Byrd (SSC); Dr. Eason (ASC); Dr. Hall (ASC); Dr. Johns (SSC); Dr. Laburtis (ASC); Dr. Landrum (ASC); Dr. O'Keefe (SSC); and Dr. Singh (SSC).

Program of Study Leading to the Degree Master of Business Administration

Coordinator — 1977, Dr. Mary Torian

OBJECTIVE

The Master of Business Administration degree program is designed to give candidates a broad background of advanced professional training in organizational management.

ADMISSION REQUIREMENTS

In addition to the general admission requirements and procedures for all graduate programs stated earlier in this bulletin, more specific requirements for admission to the MBA program are given below:

All applicants for admission to the MBA program are required to take the Graduate Management Admissions Test. This test is administered at Savannah State College and at other testing centers once each quarter. The test is designed to measure *aptitude* for graduate study in business and is not a measure of knowledge in specific subjects. Therefore, applicants should not delay taking this examination simply because they have not had specific course work in business.

REGULAR ADMISSION

To qualify for admission to full graduate status in the MBA program, applicants must show competence in the common business core of knowledge, which requires a basic understanding of accounting, economics, finance, management, marketing, and statistics. Students who have received a bachelor's degree in business generally have fulfilled this requirement, but students with degrees in other disciplines will need preparatory work in these areas before beginning MBA course work. The preparatory requirements may be met by the satisfactory completion of not less than one course (equivalent to 5 quarter hours or 3 semester hours) in each of the following areas:

Accounting	(Principles, Managerial, or Cost)
Economics	(Micro and Macro Principles)
Finance	(Business, Corporate, or Managerial)
Management	(Principles)
Marketing	(Principles)
Statistics	(Elements of)

Normally, thirty hours of preparatory work will be the maximum required, but students should recognize that one course in accounting and one course in economics will provide only a minimum level of preparation for graduate course work. A better preparation could easily improve the performance in related graduate courses by one letter grade or even two.

These preparatory requirements may be satisfied by taking appropriate courses on campus, or by correspondence, or by scoring not less than the fiftieth percentile on the appropriate subject examination(s) of the CLEP (College Level Examination Program). The CLEP examinations are available through the testing services of either College.

In addition to appropriate preparatory work, regular admission status requires that one of the following admission standards be met:

1. An undergraduate grade point average of 2.5 and a score of not less than 450 on the Graduate Management Admissions Test (GMAT) *or*
2. An undergraduate grade point average of 3.0 and a score of not less than 400 on the GMAT, *or*
3. An undergraduate grade point average of 2.75 and a score of not less than 425 on the GMAT, or other combinations of grade

point averages between 2.5 and 3.0 in conjunction with GMAT scores between 450 and 400 on an inverse scale.

CONDITIONAL ADMISSION

Conditional admission will be accorded those applicants who meet all the requirements for regular admission with the exception of preparatory course work. Upon satisfactory completion of the prerequisite courses, the conditional status will be removed and regular admission status will be accorded.

Conditional admission may also be given to a limited number of applicants who fail to meet the admission standards for regular admission but, nevertheless, present evidence of a reasonable prospect of success in the program.

For this latter category of conditional admission, which will be limited to twenty percent of the total student body in the MBA program, applicants must meet one of the following requirements:

1. An undergraduate grade point average of 2.2 and a score of not less than 425 on the Graduate Management Admission Test (GMAT), *or*
2. An undergraduate grade point average of 2.7 and a score of not less than 375 on the Graduate Management Admission Test, *or*
3. Other combinations of grade point averages between 2.2 and 2.7 in conjunction with GMAT scores between 425 and 375 on an inverse scale.

Upon completion of twenty-five hours of graduate course work with a "B" average, the conditional admission status will be changed to regular admission, providing all other requirements for regular admission have been satisfied.

ADMISSION STATUS AS A PREREQUISITE TO MBA COURSES

Stipulations and problems related to the pursuit of graduate study in the business administration courses require that students meet those conditions identified above under either the Regular or the Conditional Admissions categories in order to enroll in any MBA courses. Therefore, the Special Admissions category offers little or no opportunity for graduate study in business administration and in practice is not granted to MBA students.

ADVISEMENT

Upon admission to the graduate program, each student will be assigned a faculty adviser. The faculty adviser will approve the scheduling of course work, recommend the student for candidacy, and serve as chairman of the student's comprehensive examination committee.

COURSE REQUIREMENTS

The Master of Business Administration program requires forty-five quarter hours of core course requirements and an additional fifteen quarter hours of electives from graduate course offerings.

	Quarter Hours
I. Core requirements	45
BAD 602 — Managerial Micro Economics (ASC)	
BAD 610 — Managerial Statistics (SSC)	
BAD 611 — Quantitative Methods in Business (ASC)	
BAD 620 — Managerial Finance (ASC)	
BAD 630 — Managerial Costing and Control (SSC)	
BAD 650 — Marketing Problems Seminar (SSC)	
BAD 660 — Advanced Management Seminar (ASC)	
BAD 662 — Human Behavior in Organization (SSC)	
BAD 665 — Administrative Policy (ASC or SSC)	
II. Electives	15
BAD 601 BAD 612 BAD 640 BAD 661	
BAD 604 BAD 613 BAD 663	
BAD 605 BAD 621	

III. Balance of Courses.

Students are required to take one-half of their course work on each campus. Responsibility for the MBA courses is divided between the two sponsoring colleges as indicated below:

<i>Required Courses</i>			
<i>Savannah State College</i>		<i>Armstrong State College</i>	
BAD 610	BAD 650	BAD 602	BAD 620
BAD 630	BAD 662	BAD 611	BAD 660
BAD 665 offered at SSC or ASC			

All courses are scheduled to be offered in early and late evening periods. Courses are offered on one campus on Monday and Wednesday and the other on Tuesday and Thursday. Thus, there are four non-conflicting evening periods. Each required course is offered every other quarter. A full-time student, having all undergraduate prerequisite courses, may complete the MBA program in four consecutive quarters.

ADMISSION TO CANDIDACY

It will be the responsibility of the student to make application for admission to candidacy after the completion of all prerequisite courses and twenty-five hours of graduate course work. This application will be in four copies to the faculty adviser. Admission to candidacy is contingent upon verification that the student has attained a "B" average in twenty-five hours of course work and has met all regular admission requirements including:

1. an acceptable score on the Graduate Management Admissions Test.
2. completion of all undergraduate prerequisite courses.
3. removal of conditional admission status, when applicable.

COMPREHENSIVE EXAMINATION

A final comprehensive examination, to be scheduled in a student's final quarter and at least two weeks prior to graduation, is required of all candidates for the Degree of Master of Business Administration. The final examination will be conducted by a committee consisting of the student's faculty adviser as chairman and other members of the graduate faculty appointed by the MBA Coordinator. The date of the examination, the time and place, will be set by the Coordinator after consultation with the faculty adviser.

The Coordinator shall notify the student and the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date, and time of the examination and the composition of the committee.

The candidate is expected to demonstrate an adequate understanding of the common core of knowledge in business, economics, and statistics, and competency to discuss advanced material in those areas in which he has had graduate course work.

The examining committee's decision on the candidate's performance on the comprehensive examination shall be reported as "S" or "U" to the Deans for Graduate Studies within three days after the examination. Should the decision be reported as "U," the committee will outline a program of corrective action to be taken by the candidate prior to his being re-examined.

Graduate Courses in Business Administration

It should be understood that prerequisite to all MBA courses, the student must satisfy requirements in the common body of knowledge of business and administration as stated above. Waivers may be granted for *certain* courses.

BAD 601. Macro Economic Analysis. (5-0-5). SSC.

National income accounting. Determinants of national income, employment, price level and growth rates.

BAD 602. Managerial Economics. (5-0-5). ASC.

Economic analysis applied to decision making at the level of the firm. Analysis of demand, pricing, and cost. National income and firm forecasting problems. Financial and long term planning.

BAD 604. Business Relations with Government and Society. (5-0-5). ASC.

The business environment with consideration of the economic, legal and social implications for policy making.

BAD 605. Special Economic Problems. (5-0-5). ASC.

Analysis of current economic issues.

BAD 610. Managerial Statistics. (5-0-5). SSC.

Applications in economic and business statistics.

BAD 611. Quantitative Methods in Business. (5-0-5). ASC.

The application of models and mathematical techniques to modern decision-making.

BAD 612. Seminar in Business Research. (5-0-5). SSC.

The application of research methods in both the internal and external domains of business. Guided research in a substantive field of the student's choice, i.e., finance, marketing, accounting, management, forecasting, or any other area in which the objectives of the research project is the acquisition of information useful to business enterprise.

BAD 613. Administrative Communications. (5-0-5). ASC.

The role of communication in effective business management; theory and principles necessary for practical applications; study of

communication problems within, between and among organizations, industry and other groups.

BAD 620. Managerial Finance. (5-0-5). ASC.

Analysis of financial problems and policies.

BAD 621. Investment Management. (5-0-5). ASC.

The theory and tools of analysis required in the management of financial assets from the viewpoint of the investor and the investment adviser. Investment media, markets, problems, practices, and philosophies will be studied.

BAD 630. Managerial Costing and Control. (5-0-5). SSC.

The study of physical and monetary input-output relationships and use of such cost studies for managerial strategy, planning, and control.

BAD 640. Information Systems. (5-0-5). SSC.

Total Information Systems for managerial strategy, planning and control.

BAD 650. Marketing Problems Seminar. (5-0-5). SSC.

An examination of new developments in the dynamic field of marketing from the viewpoint of the marketing decision-maker.

BAD 660. Advanced Management Seminar. (5-0-5). ASC.

The historical foundations and development of management concepts. Emphasis is upon developing concepts in dealing with emerging problems of management.

BAD 661. Theory of Organization. (5-0-5). SSC.

A universally applicable study of organizations and their structures. Organizational factors and associated concepts are examined and analyzed.

BAD 662. Human Behavior in Organization. (5-0-5). SSC.

Contributions and limitations of the behavioral sciences in the development of modern organization theory.

BAD 663. Industrial Relations. (5-0-5). ASC.

Modern industrial relations and its background. Current problems in labor relations.

BAD 665. Administrative Policy. (5-0-5). ASC or SSC. Prerequisites: BAD 610, 611 and 30 additional quarter hours of graduate credit; should be taken near the end of the MBA program.

Policy-making and administration from the top management point of view, encompassing the entire field of organizations.

*Program of Study Leading to the Degree
Master of Education in Business Education*

Coordinator — 1977, Dr. Emory H. Richards

OBJECTIVES

The objectives of the graduate program leading to the Master of Education Degree in Business Education are to prepare master teachers of business and vocational business education and to prepare individuals for administrative and supervisory positions in these specialties for the secondary and junior college levels.

In keeping with the objectives of the Joint Graduate Studies Program, the M.Ed. in business education is designed for furthering professional growth and competency, expanding professional and cultural backgrounds, and extending knowledge and understanding in business education.

This program supplements undergraduate studies for the T-4 Certificate to teach in Georgia and provides opportunities for candidates to obtain the T-5 Certificate upon completion of the prescribed curriculum in business education.

ADMISSION REQUIREMENTS

Formal admission to the degree program should be sought through the Admissions Office of the Joint Graduate Program as described in the General Admissions section of this *Bulletin*.

In accordance with general admissions policies, regular admission with full graduate status requires the minimum 2.5 cumulative undergraduate average with a score of at least 500 on the N.T.E. Common (or 800 on the G.R.E. Aptitude), or the minimum 3.0 cumulative undergraduate average with a score of at least 450 on the N.T.E. Common (or 750 on the G.R.E. Aptitude). Intermediate points on a scale with an inverse relation between G.P.A. and test scores are acceptable. Regular admission also requires a score of not less than 560 on the business education area examination of the NTE.

Conditional admission may be granted to those students who show potential for successful pursuit of graduate studies. In accordance with general admission policies, conditional admission requires the minimum 2.2 G.P.A. with a score of at least 475 on the N.T.E. Common (or 775 on the G.R.E. Aptitude) or the minimum 2.7 G.P.A. with a score of at least 425 on the N.T.E. Common (or

725 on the G.R.E. Aptitude). Intermediate points on a scale as described above are acceptable. Specific requirements based on individual needs and aspirations will be stipulated by the Departmental Admissions Committee for meeting the requirements of regular admission status. Conditional admission also requires a score of not less than 540 on the business education area examination of the NTE.

ADVISEMENT

Each student admitted to the program in Business Education will be assigned an adviser. As soon as the student is notified of this assignment, he should arrange for a conference with his or her adviser.

TRANSFER OF CREDIT

Transfer of credits will be evaluated for full credit up to 50% of the required hours for graduation, but these credits must meet the general graduate policies on transfer of credit.

GRADUATION REQUIREMENTS

1. A minimum of 60 quarter hours of graduate course work with a B average (3.00) is required for graduation with an M.Ed. degree in Business Education.
2. After admission to regular status in the graduate program, and upon completion of 25 quarter hours of satisfactory graduate work, the student should file application for candidacy in quadruplicate to the major department.
3. During the quarter preceding the final intended quarter of matriculation for the M.Ed. degree in Business Education (and by the deadline specified on the academic calendar), the candidate must file an application for the degree with the Graduate Studies Office.
4. During the final quarter of residence, a candidate must pass a final comprehensive examination in the field. The Business Education Coordinator shall notify the student and the Deans for Graduate Studies ten (10) days prior to the examination concerning the proposed place, date, and time of the examination and the composition of the committee. The examining committee's decision on the candidate's performance on the

II. Content Course Requirements 30

Content courses, including cognate courses, and electives will be selected by the student based on his interests, aptitudes, and professional goals. A thesis option is available through registration in BED 690. BED 601 and BED 611 are required.

BED 601	BED 611	BED 622	BED 632
BED 602	BED 612	BED 623	BED 690
BED 603	BED 621	BED 631	BED 700

All of the above courses carry 5 hours credit except 690 and 700 which carry 10 hours of credit each.

Special Summer Workshop Courses Available

BED 620—10 hours; combines BED 621 and 622.
 BED 630—10 hours; combines BED 631 and 632.
 BED 640—10 hours; combines BED 623 and 624.

Workshops are offered alternately on each campus.

Business Administration Cognate Courses

As a part of the content area, *a minimum of 10 hours of Business Administration courses is required.* These courses, selected in conference with the student's adviser, should complement the selected option of concentration.

III. Elective Course Requirements 15

The 15 hours of electives may be selected from Business Administration courses and should complement the selected option of concentration. An appropriate course in exceptional children (EXC 522) must be taken if not taken previously.

IV. Balance of Courses.

Students will fulfill the balance of courses requirement by taking one-half of their required courses and one-half of their elective courses at each College. For the campus location of the Education courses, see the Education Department section of this *Bulletin*. For the campus location of the Business Administration courses, see the Master of Business Administration degree program in this section of this *Bulletin*. A guide to the campus location of the Business Education courses is given below.

Savannah State College

BED 611	BED 624
BED 612	BED 632
BED 622	BED 700

Armstrong State College

BED 601	BED 621
BED 602	BED 623
BED 603	BED 631

BED 690 offered at both Colleges.

BED 620, 630, and 640 — For more information, contact the Coordinator.

TEACHER CERTIFICATION

The student who does not hold the Georgia T-4 teaching certificate or its equivalent must satisfy the regulations of the State Department of Education through additional courses as may be required.

The professional education requirements may be met, depending on the evaluation of the undergraduate transcript, through the fifteen hours of electives and additional hours as may be required. See section on Teacher Certification under General Degree Requirements.

Graduate Courses in Business Education

BED 601. Principles, Problems, and Curriculum Development in Business Education. (5-0-5). ASC.

An intensive view of the basic principles and criteria for developing effective programs in business education on all levels, with special attention to problems of identification, growth, and contributions.

BED 602. Current Problems and Issues in Vocational Business Education. (5-0-5). ASC.

A study of the principles of vocational education; federal and state legislation as it pertains to programs of vocational education; the organization and operation of vobe programs; and related research.

BED 603. Evaluation of Research and Empirical Literature in Business Education. (5-0-5). ASC.

Critical analysis of research studies in business education; study and development of reports, research studies, investigations, and methods of recording and retaining data, with special emphasis on administrative data.

BED 611. Administration and Supervision in Business Education. (5-0-5). SSC.

Principles, policies, and procedures in developing appreciation and understanding of and knowledge and skill in the art of effective administration and supervision in business education.

BED 612. Guidance and Career Development in Business Education. (5-0-5). SSC.

The role of the business education teacher and administrator in developing an effective career development program: inclusive of selection, recruitment, and grade or curriculum placement; keeping personnel records; a testing and evaluation program; counseling; placement; and followup.

BED 621. Vocational Development in Shorthand and Typewriting. (5-0-5). ASC.

Problems in development of occupational proficiency in shorthand and typewriting; new media and evaluation of aptitudes, interests, and achievement for vocational competency.

BED 622. Vocational Development in Office Practice and Office Machines. (5-0-5). SSC.

Enrichment of selected modules for developing vocational competency in the capstone course in Office Practice and in Office Machines.

BED 623. Introduction to the Teaching of Data Processing. (5-0-5). ASC.

Introduction to data processing; development of key punching and basic programming skills.

BED 624. Vocational Development in the Teaching of Data Processing. (5-0-5). SSC. Prerequisite: Mathematics 306 or equivalent computer programming skill.

Systems, program languages, computer and keypunch operation, other input devices for developing modules and techniques of teaching modern methods of data processing.

BED 631. Improved Techniques and Media for Teaching General Business. (5-0-5). ASC.

An intensive concentration on objectives, instructional materials, media, teaching techniques, and evaluation procedures for general business and social business subjects.

BED 632. Improved Techniques and Media for Teaching Bookkeeping and Accounting. (5-0-5). SSC.

The development of enrichment materials and techniques for effective teaching and learning in bookkeeping and accounting.

BED 690. Research and Thesis. (10 quarter hours). ASC and SSC. (Grade awarded, S or U only.)

An in-depth study and concentration in the development of the thesis research problem. Seminar sessions for progress reporting and critical analysis.

BED 700. Internship in Teaching and/or Administrative Office Practice. (10 quarter hours). SSC. (Grade awarded, S or U only.)

Internship teaching in vocational or secondary schools for those with needs in this area; full time work experience in structured offices for experienced teachers.

BED 620. Workshop for Vocational Development in Stenographic Skills. (10 quarter hours).

Intensive concentration involving the development of techniques and skills incorporated in BED 621 and BED 622 as described above.

BED 630. Workshop for Vocational Development in General Business and Accounting. (10 quarter hours).

Intensive concentration involving the development of techniques and skills incorporated in BED 631-632 as described above.

BED 640. Workshop for Vocational Development in Data Processing. (10 quarter hours).

Intensive concentration involving the development of programming skills and the teaching of data processing. Combines BED 623 and 624.

BIOLOGY

FACULTY

Dr. Leslie Davenport, Department Head, (ASC); Dr. Margaret Robinson, Department Head, (SSC); Dr. Beumer, (ASC); Dr. Guillou, (ASC); Dr. Hunter, (SSC); Dr. Krishnamurti, (SSC); Dr. Nambiar, (SSC); Dr. Pingel, (ASC); Dr. Singh, (SSC); Dr. Thorne, (ASC); and Dr. Woodhouse, (SSC).

Program of Study Leading to the Degree Master of Education in Biology

Coordinator — 1977, Dr. Leslie Davenport

ADMISSION REQUIREMENTS

Admission to graduate courses in biology requires that a student meet the general admission requirements of the Joint Graduate Studies Program and be formally admitted as a graduate student.

ADVISEMENT

Each student will be assigned an academic adviser from the Joint Graduate Biology Faculty and a professional adviser from the Joint Graduate Education Faculty. The student must meet with each of his advisers and plan his program under their guidance, and should have at least one conference per quarter with his academic adviser.

COURSE REQUIREMENTS

Quarter Hours

- I. Professional Education Courses 15
 EDN 671—Educational Research — 5 hours
 Two courses (10 hours) from the following two areas:
 Foundations — 5 hours
 Curriculum and Methods — 5 hours

- II. Academic Courses — Biology 25

In order to receive the M.Ed. degree with a concentration in Biology, the student will be expected to have acquired at least the following credits in either his upper division undergraduate work or in graduate work:

- 15 quarter hours in botany
 15 quarter hours in zoology
 5 quarter hours in cell biology

If the entering student has had no courses in any of these areas, his graduate program in biology must include courses to assure this diversification. Each student must include 5 quarter hours credit for the course, BIO 630, Biological Sciences in the Secondary School, which may be credited as either Biology or Education.

The student entering the program with previous credits in biology will be required to take courses as needed in any of the indicated areas (botany, zoology, cell biology) to assure the prescribed minimum diversification. In addition to meeting the minimum requirement for diversification, he will elect courses with the advice of his graduate advisers to meet the total requirements of 25 hours of biology plus elective to comply with item three (III) below.

- III. Electives — Biology and Education 25

No more than 20 quarter hours of graduate credit may be taken in either field (Biology or Education), but this should not be interpreted to restrict any course work which exceeds the minimum requirements for the degree. An appropriate course in exceptional children (e.g., EXC 522) must be taken if not taken previously.

- IV. Balance of Courses.

Students will fulfill the balance of courses requirement by taking one half of their required courses and one half of their elective courses at each of the two Colleges. A guide to the location of the biology courses follows:

Savannah State College

Armstrong State College

BIO 500	BIO 525	BIO 630	BIO 550	BIO 540	ZOO 510
BIO 501	BIO 526	BOT 607	BIO 580	BIO 510	ZOO 525
BIO 502	BIO 527	BOT 615	BIO 605	BOT 525	ZOO 529
BIO 506	BIO 601	BOT 625	BIO 635	BOT 620	ZOO 535
BIO 515	BIO 609	BOT 626	BIO 640	ZOO 605	ZOO 645
BIO 520	BIO 612				ZOO 646

BIO 630 offered at either college

For location of Education Courses, see the Education Department section of this Bulletin.

COMPREHENSIVE EXAMINATION

To receive the M.Ed. degree with a concentration in biology, each student is required to pass a comprehensive examination covering the areas in which he has had course work applicable to his degree. The examination may be oral or written. Oral examinations will last no more than one and one-half hours; written examinations will last no more than three hours. This examination will be completed no later than mid-term of the quarter preceding that in which graduation is anticipated. If the student should fail the examination, he may be re-examined orally or in writing, at the discretion of the departments, in areas of specific weakness only. The Coordinator shall notify the student and the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date, and time of the examination and the composition of the committee. The result of the examination will be reported to the Deans for Graduate Studies within three days after the examination.

Graduate Courses in Biology

The following courses, open to both graduate and undergraduate students, are available at Savannah State College:

BIOLOGY 500. Physiological Ecology. (3-4-5). SSC. Prerequisites: Principles of Ecology and Organic Chemistry.

A study of the anatomical, biochemical, and physiological adaptations of plants and animals to specific environments. Emphasis will be placed on the physiological problems faced by organisms common to the local salt marsh and marine environments.

BIOLOGY 501. General Physiology. (3-4-5). SSC. Prerequisites: Twenty hours of Biological Sciences, Organic Chemistry, and General Physics.

A study of the physics and chemistry of mechanisms underlying functional occurrences in living organisms, particularly those involved in homeostasis.

BIOLOGY 502. Comparative Physiology. (3-4-5). SSC. Prerequisite: General Physiology.

A systematic study of the functions of the organs in the animal kingdom and the physiological principles involved.

BIOLOGY 506. Plant Physiology. (3-4-5). SSC. Prerequisites: General and Field Botany and Organic Chemistry.

An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes.

BIOLOGY 515. Marine Biology. (3-4-5). SSC. Prerequisites: General Botany and Invertebrate Zoology.

An introduction to the physiological and ecological biology of microorganisms, plants, and animals of the sea and its shores.

BIOLOGY 520. Molecular Genetics. (3-4-5). SSC. Prerequisites: Principles of Genetics and Organic Chemistry.

The nature and function of genetic material, genetic code and physical basis of inheritance. The study also includes genetic control of cellular metabolism; mechanism of gene action; genetic capacity for biosynthesis; gene enzyme relationship; and chemical nature of agents of heredity.

BIOLOGY 525. Bacterial Physiology. (3-4-5). SSC. Prerequisites: Microbiology and General Physiology.

A review of current knowledge of bacterial growth and reproduction considered at the molecular level. Study of cellular structure growth-kinetics, the synthesis of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation.

BIOLOGY 526. Virology. (3-4-5). SSC. Prerequisite: Microbiology.

A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation.

BIOLOGY 527. Mycology. (3-4-5). SSC. Prerequisite: Microbiology.

A study of the ecology, physiology, and systematics of microfungi with emphasis on those forms of industrial or general economic importance.

The following courses, open to both graduate and undergraduate students, are available at Armstrong State College:

BOTANY 510. Plant Physiology. (3-4-5). ASC. Prerequisites: Botany 203 and Organic Chemistry.

A survey of physiological processes occurring in economic plants and the conditions which affect these processes.

BOTANY 525. Plant Morphology. (3-4-5). ASC. Prerequisite: Botany 203.

Comparative studies of vascular plants with emphasis on form, structure, reproduction, and evolutionary relationships.

BIOLOGY 540. Cytology. (2-6-5). ASC. Prerequisite: Two senior division courses in biology.

The study of cells, their cytoplasm and nuclei, growth, differentiation, and reproduction.

BIOLOGY 550. Evolution. (5-0-5). ASC. Prerequisite: major in biology (at least 15 quarter hours credit in upper division courses).

Modern concepts in organic evolution.

BIOLOGY 580. General Ecology. (3-4-5). ASC. Prerequisites: Two upper division courses in biology (botany or zoology).

A survey of the principles of ecology and their application to the welfare of man, co-ordinated with a study of populations and communities in the field.

ZOOLOGY 510. General Vertebrate Physiology. (3-4-5). ASC. Prerequisites: Zoology 204 and Organic Chemistry.

An introduction to the general physiologic processes of the vertebrates.

ZOOLOGY 525. Marine Invertebrate Zoology. (2-6-5). ASC. Prerequisite: Zoology 325, or permission of instructor and department head.

Studies in the identification and ecologic distribution of marine invertebrates as exemplified by collection from the southeastern coastal region.

ZOOLOGY 529. Endocrinology. (4-4-5). ASC. Prerequisites: Zoology 410 and one other senior division course in biology.

Physiology of the endocrine glands, their control of metabolism and reproductive cycles.

ZOOLOGY 535. Comparative Physiology. (3-4-5). ASC. Prerequisites: Zoology 204, and Organic Chemistry.

Studies in various groups of animals of the functions of organ systems involved in the maintenance of homeostasis under varying conditions within normal habitats and of *in vitro* reactions of tissues and systems under laboratory conditions.

The following courses are open to graduate students only:

BIOLOGY 601. Topics in Molecular and Cellular Biology. (3-4-5). SSC. Prerequisites: Complete sequence in Organic Chemistry and Principles of Genetics (5 hrs.). Recommended: Biochemistry and/or Microbiology.

Concepts of biochemistry and biophysics of cells, nutrition, metabolism and energy transfer, molecular genetics, cellular anatomy and physiology, cytology, and ultrastructure.

BIOLOGY 609. Advanced Microbiology. (3-4-5). SSC. Prerequisites: Introductory Microbiology or Bacteriology (5 hrs.) and complete sequence in Organic Chemistry.

A study of important pathogenic microorganisms producing human disease, including characteristics of microorganisms, prin-

ciples of host-parasite relationships, epidemiology, and immunity. Consideration will be given to microorganisms in their natural and unnatural environments with emphasis on techniques used in evaluation of their presence and effects in food, water, and soil.

BIOLOGY 612. Advanced Genetics. (3-4-5). SSC. Prerequisites: Principles of Genetics (5 hrs.) and complete sequence of Organic Chemistry.

Study of gene structure and gene action from a molecular viewpoint. Recent concepts and experimental approaches for recombinational analysis, mutagenesis, and metabolism of DNA, RNA and protein will be discussed.

BIOLOGY 630. The Biological Sciences in the Secondary Schools. (3-4-5). SSC. Prerequisite: Fifteen hours of biological sciences.

A course designed especially for high school biology teachers. A comprehensive study of national programs for high school biology with special emphasis on the BSCS approaches. Laboratory experiences will include utilization of actual BSCS materials and apparatus.

BIOLOGY 635. Advanced General Ecology. (3-4-5). ASC. Prerequisites: General Ecology or Plant Ecology or Animal Ecology (5 hrs.). Recommended: Statistics.

Studies of the processes and functional aspects of population and community ecology emphasizing interaction between structure and the environment. Consideration will be given to problems of environmental pollution.

BIOLOGY 640. Cellular Physiology. (3-4-5). ASC. Prerequisites: Complete sequence in Organic Chemistry and 5 hours of Physiology.

A consideration of the functional relationships between microscopic anatomy and cell chemistry, emphasizing permeability, metabolisms, and growth.

BOTANY 607. Advanced Plant Physiology. (3-4-5). SSC. Prerequisites: One course in Plant Physiology (5 hrs.) and complete sequence in Organic Chemistry.

Comparative study of nutritional requirements, metabolism, growth and development, respiration, photosynthesis, and other processes in selected vascular and non-vascular plants.

BOTANY 615. Comparative Morphology of Non-Vascular Plants. (3-4-5). SSC. Prerequisites: General Botany (10 hrs.). Recommended: Plant Anatomy (5 hrs.)

Comparative morphology of non-vascular plants emphasizing identification, life histories, ecology, and evolutionary development.

BOTANY 620. Comparative Morphology of Vascular Plants. (3-4-5). ASC. Prerequisites: General Botany (10 hrs.). Recommended: Plant Anatomy (5 hrs.).

Comparative morphology of vascular plants emphasizing identification, life histories, ecology, and evolutionary development.

BOTANY 625. Field and Laboratory Botany. (3-4-5). SSC.

BOTANY 626. Field and Laboratory Botany. (3-4-5). SSC. Prerequisites: General Botany (10 hrs.) and Plant Systematics (5 hrs.).

A two-course sequence designed primarily for teachers, emphasizing the identification of local flora (vascular and non-vascular), phylogeny, environmental relationships, techniques for collection and preservation, and the selection and use of materials for correlating the study of plants with other subjects.

ZOOLOGY 605. Advanced Animal Physiology. (3-4-5). ASC. Prerequisites: One course in General Physiology (5 hrs.) and complete sequence in Organic Chemistry.

A study concerning functional activities of living organisms including humans in terms of both cellular and systemic functions. These topics include biological energetics, electrolyte distribution, transport through membranes, and colloidal state in biological systems.

ZOOLOGY 645. Field and Laboratory Zoology. (3-4-5). ASC.

ZOOLOGY 646. Field and Laboratory Zoology. (3-4-5). ASC. Prerequisites: Fifteen hours of biological sciences.

A two-course sequence designed primarily for teachers, emphasizing the identification of local fauna (vertebrate and invertebrate), phylogeny, environmental relationships, techniques for collection and preservation, and the selection and use of materials for correlating the study of animals with other subjects.

CHEMISTRY

FACULTY

Dr. Henry Harris, Department Head, (ASC); Dr. Willie Tucker, Department Head, (SSC); Dr. Brewer, (ASC); Dr. James, (SSC); Dr. Menon, (SSC); Dr. Raut, (SSC); Dr. Robbins, (ASC); and Dr. Stratton, (ASC).

Program of Study Leading to the Degree Master of Education in Chemistry

Coordinator — 1977, Dr. Henry Harris

ADMISSION REQUIREMENTS

Students entering the M.Ed. program in Chemistry must meet the general admission requirements of the Joint Graduate Studies Program and must take the chemistry area examination of the National Teacher Examinations (NTE) in order to qualify for degree-seeking status.

ADVISEMENT

Each student will be assigned an academic adviser from the Joint Graduate Chemistry Faculty and a professional adviser from the Joint Graduate Education Faculty. The student must meet with each of his advisers and plan his program under their guidance and should have at least one conference per quarter with each adviser.

COURSE REQUIREMENTS

	<i>Quarter Hours</i>
I. Professional Education Courses	15

These courses are selected in consultation with the Education Adviser. A Professional Education Core group of courses which is required is shown below:

- EDN 631—Social Foundations of Education (ASC) *or*
- EDN 621—Advanced Studies in Human Growth and Development (SSC) *or* EDN 622—The Nature and Conditions of Human Learning (SSC).
- EDN 641—Curriculum Planning (SSC).
- EDN 671—Educational Research (ASC).

II. Chemistry Courses	25
---------------------------------	----

These courses are selected, in consultation with the student's chemistry adviser, from the graduate courses in chemistry.

III. Electives 20

Electives are to be chosen through advisement and according to individual needs and may include courses in chemistry, education, or a suitable third field with the prior approval of the student's advisers. An appropriate course in exceptional children (e.g., EXC 522) must be taken if not taken previously.

IV. Transfer of Credits.

Students who have earned graduate credits at an accredited institution may transfer a limited number of credits to be applied toward the M.Ed. degree in chemistry. Transfer of credit is handled on an individual basis.

V. Balance of Courses.

Students will fulfill the balance of courses requirements by taking one half of their required courses and one half of their elective courses at the two Colleges. A guide to the location of the courses follows:

Savannah State College

CHEM 500	CHEM 631
CHEM 541	CHEM 641
CHEM 581	CHEM 682
CHEM 592	CHEM 692
CHEM 600	CHEM 694
CHEM 610	CHEM 699
CHEM 621	

Armstrong State College

CHEM 522	CHEM 662
CHEM 551	CHEM 681
CHEM 561	CHEM 683
CHEM 591	CHEM 691
CHEM 600	CHEM 693
CHEM 642	CHEM 698

A guide to the campus location of the education courses is in the Education Department section of this bulletin.

COMPREHENSIVE EXAMINATION

To receive the M.Ed. degree with a concentration in chemistry, each student is required to pass a comprehensive examination covering the areas in which he has had course work. The examination may be oral or written. Oral examinations will last no more than one and one-half hours; written examinations will last no more than three hours. This examination will be completed no later than mid-term of the quarter preceding that in which graduation is anticipated. If the student should fail the examination, he may be reexamined orally or in writing, at the discretion of the departments, in areas of specific weakness only. The Coordinator shall notify the student and the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date, and time of the examination and the composition of the committee. The result of the examination will be reported to the Deans for Graduate Studies within three days after the examination.

Graduate Courses in Chemistry

CHEMISTRY 500. Introduction to Chemical Research. (2-0-2). SSC.

This course outlines systematic methods of literature research and preparation research outlines from reference to original articles.

CHEMISTRY 522. Inorganic Chemistry. (3-0-3). ASC.

Modern theory of structures and bonding, acid-base theories, and properties of some rare elements and unusual compounds will be detailed. The latter includes nonstoichiometric compounds, rare gas compounds, and coordination complexes.

CHEMISTRY 541. Organic Chemistry. (3-0-3). SSC.

Basic organic chemistry to include structures, reactions, and reaction mechanisms.

CHEMISTRY 551. History of Chemistry. (5-0-5). ASC.

The development of science surveyed from antiquity to the present. Emphasis is placed on the development of ideas, men who made significant contributions, evolution of chemical theories and the modern social implications of science.

CHEMISTRY 561. Biochemistry. (4-3-5). ASC.

Study of buffers, carbohydrates, lipids, nucleic acids, amino acids, proteins, enzymes, Kreb's cycle and other metabolism routes.

CHEMISTRY 581. Analytical Chemistry. (3-0-3). SSC.

The basic principles, theories, and application of fundamental analytical chemistry are examined. The concepts of dynamic equilibrium, gravimetric and volumetric analysis are stressed.

CHEMISTRY 591. Physical Chemistry. (5-0-5). ASC.

This course is designed to cover the basic principles of thermodynamics and molecular structure and their applications to chemical systems.

CHEMISTRY 592. Physical Chemistry. (5-0-5). SSC. Prerequisite: Chemistry 591.

Topics to be discussed will vary and will include subjects such as surface chemistry, photochemistry, irreversible processes and crystal structure.

CHEMISTRY 600. Chemical Research. (0-15-5). SSC or ASC.

Research under the supervision of a member of the Joint Graduate Chemistry Faculty.

CHEMISTRY 610. Radiochemistry. (2-3-3). SSC.

A general course dealing with nuclear structure, radioactive properties and decay characteristics of radioisotopes, their production and purification. Different types of detection of radiation,

identification of radioisotopes and their practical applications will also be discussed.

CHEMISTRY 621. Chemistry for High School Teachers. (4-3-5). SSC.

This course covers CHEM Study material and also Chemical Bonding Approach material for high school teachers.

CHEMISTRY 631. Development of Chemical Theories. (3-0-3). SSC.

A study of the basic principles upon which well known chemical theories are founded. Topics such as the kinetic molecular theory, chemical equilibria, and spectroscopy will be discussed.

CHEMISTRY 641. Advanced Organic Chemistry. (3-0-3). SSC. Prerequisite: Chemistry 541.

Discussion of significant principles of organic chemistry.

CHEMISTRY 642. Advanced Organic Chemistry. (2-0-2). ASC.

Discussion of significant principles of chemical bonding, stereochemistry and conformation analysis, spectroscopy and similar topics which are applicable to an understanding of organic chemistry.

CHEMISTRY 662. Biochemistry. (3-0-3). ASC. Prerequisite: Chemistry 561.

A consideration of the chemical and physical principles employed in the study of macromolecules of biological importance.

CHEMISTRY 681. Advanced Analytical Chemistry. (3-0-3). ASC. Prerequisite: Chemistry 581.

Advanced theories and methods of analytical chemistry.

CHEMISTRY 682. Advanced Analytical Chemistry. (2-0-2). SSC.

The current problems facing analytical chemistry are used to coordinate and to examine contemporary thought in this field. Problems such as trace environmental analysis, analysis of unique materials and non-destructive analysis will be treated.

CHEMISTRY 682. Instrumental Analysis. (2-3-5). ASC. Prerequisite: Chemistry 581.

A study of the fundamental principles, construction and operational characteristics of modern instrumentation as related to physiochemical analytical techniques. Optical, electrometric and chromatographic separation procedures are discussed and practiced.

CHEMISTRY 691. Advanced Physical Chemistry. (3-0-3). ASC.

An advanced study of molecular structure, the physical properties of matter, and the nature of chemical bonding.

CHEMISTRY 692. Chemical Thermodynamics. (3-0-3). SSC.

A primary study of classical thermodynamics and energetics with applications to chemical systems.

CHEMISTRY 693. Quantum Chemistry. (3-0-3). ASC.

A review of classical mechanics and the rise of wave mechanics. Applications of wave mechanics to simple molecules and approximation methods will be considered. A conceptual formulation of the quantum theory and discussion of the one-dimensional Schroedinger equation.

CHEMISTRY 694. Chemical Kinetics. (3-0-3). SSC.

A study of rate processes and reaction mechanisms. Topics such as theories of reaction rates, activation energies, reactions in solution, homogenous and heterogenous catalysis, and experimental methods will be covered.

CHEMISTRY 698. Seminar (2-0-2) and Chemistry 699, Seminar (2-0-2). ASC and SSC.

Discussion of selected topics.

EDUCATION

FACULTY

Dr. Thelma Harmond, Department Head, (SSC); Dr. William Stokes, Department Head, (ASC); Dr. J. C. Adams, (SSC); Dr. J. V. Adams, (ASC); Dr. Agyekum, (SSC); Dr. Barber, (ASC); Dr. Bland, (ASC); Dr. Burgess, (SSC); Dr. Cochran, (SSC); Dr. Eaton, (SSC); Dr. Gadsden, (SSC); Dr. Lane, (ASC); Dr. Lawson, (SSC); Dr. Lentini, (ASC); Dr. Newberry, (ASC); Dr. Robinson, (SSC); Dr. Sartor, (SSC); Dr. Stephens, (SSC); Dr. Sumner, (SSC); and Dr. Ward, (ASC).

Programs of Study Leading to the Degree
Master of Education in Elementary Education and in
Early Childhood Education and in
Special Education-Behavior Disorders

Coordinator — 1977, Dr. William Stokes

OBJECTIVES

By offering advanced preparation to those who professionally serve in schools, the Colleges hope to aid in the development of teachers who possess the highest qualities of character, commitment, and professional competence. This aim will be facilitated by (1) encouraging the student to do scholarly study in advanced professional, specialized and general education subject matter; (2) helping the student become acquainted with the most recent research developments in child growth and development and the

latest trends in curriculum; (3) deepening his appreciation for performance in scientific investigation and research; and (4) promoting personal and professional maturity of the student that will be reflected in his relationships as he goes about his work in the community and in the field of education.

ADMISSION REQUIREMENTS

Students entering the elementary education, the early childhood, and the special education programs must satisfy all general admission requirements of the Joint Graduate Studies Program. Elementary and early childhood education students must submit scores on both the "Commons" and the area examinations of the National Teacher Examinations (NTE) for admission as degree-seeking students.

ADVISEMENT

Shortly after admission to the program, each student will be assigned an adviser in the Department of Education. As soon as he is notified of this assignment, the student should schedule an appointment with his adviser to determine any conditions and specific requirements the student must meet in order to complete both his degree and certification objectives.

COURSE REQUIREMENTS ELEMENTARY EDUCATION PROGRAMS

The Department of Education offers several specialization programs under the aegis of the M.Ed. degree in elementary education. These specialized programs of study provide, in addition to the graduate major in elementary education which leads to T-5 certification in this area, opportunity for students to qualify for certain other kinds of certification. Students should inquire at the Department of Education for certification opportunities provided by these specialized programs.

Graduate students majoring in elementary education must complete a minimum of sixty quarter hours of approved courses. These hours are divided as follows: Professional Sequence—20 hours; Specialization Courses—25 hours; and Approved Electives—15 hours. *One course in reading must be taken if not taken previously as well as an appropriate course in exceptional children if not taken previously.*

The specialized content courses for elementary education may be chosen from the following areas: art and music; foreign languages; health and physical education; languages arts, including reading,

literature, speech, linguistics; mathematics and science; and the social studies. Educational background, types of teaching experience, specific needs, interests and the goals of students will be the determinants for staff advisement in student selection of content areas. Upon the basis of the foregoing factors, students may choose specialized courses from two or from several of the content areas.

I. Professional sequence courses	Hours 20
--	-------------

Required of students in all elementary education programs.

- EDN 621—Advanced Studies in Human Growth and Development
or
- EDN 622—Nature and Conditions of Human Learning. (Both at
SSC)
- plus
- EDN 631—Social Foundations of Education (ASC)
- plus
- EDN 641—Curriculum Planning (SSC)
- plus
- EDN 671—Educational Research (ASC)

II. Courses appropriate to major field and specialization	40
---	----

A. Courses for the conventional major in elementary education.

- 1. Major field (content) courses in
elementary education 25

*Selected, with advisement, from the following
courses:*

- EDN 540—Teaching Language Arts in Elementary
School (ASC)
- EDN 541—Methods of Teaching Reading (ASC)
- EDN 542—Reading and Literature for Children (SSC)
- EDN 591—Science for Elementary and ECE Teachers
(ASC)
- EDN 601—The Language Arts in the Educative
Process (SSC)
- EDN 642—Seminar in Elementary Education (SSC)
- EDN 643—Problems in Reading (SSC)
- EDN 691—Environmental Science (ASC)
- EDN 696—Geography for Elementary Teachers (SSC)
- EDN 697—Social Studies for Elementary and ECE
Teachers (ASC)
- MATH/EDN 592—Modern Mathematics for Elemen-
tary and ECE Teachers (ASC)
- ZOO/EDN 692—Zoology for Elementary Teachers
(SSC)
- BOT/EDN 693—Botany for Elementary Teachers
(SSC)
- CHEM/EDN 694—Chemistry for Elementary Teach-
ers (SSC)
- PSci/EDN 695—Earth Science for Elementary Teach-
ers (SSC)

2. Electives	15
------------------------	----

Elective courses selected with advisement.

B. Courses for a major in elementary education with a specialization in early childhood education.

1. Major field courses in elementary education	25
--	----

Same as in A above.

2. Specified electives only; prescribed courses are:	15
--	----

- EDN 627—Child Growth and Development (ASC)
- EDN 647—Curriculum for Early Childhood Education (SSC)
- EDN 802—Practicum in Early Childhood Education (ASC or SSC)

C. Courses for a major in elementary education with a specialization in supervising teacher services.*

1. Major field courses in elementary education	25
--	----

Same as in A above.

2. Specified electives only; prescribed courses are:	15
--	----

- EDN 581—Directing and Evaluating Student Teaching*
- EDN 582—Internship for Supervising Teachers*
- EDN 583—Seminar in Supervision*

D. Courses for a major in elementary education with a specialization in reading.

1. Specialization courses in reading	25
--	----

Selected, with advisement, from the following courses:

- EDN 541—Methods of Teaching Reading (ASC)
- EDN 643—Problems in Teaching Reading (SSC)
- EDN 644—Issues in Diagnosing and Prescribing in the Reading Process (SSC)
- EDN 653—Remedial Reading (Practicum) (ASC)
- EDN 654—Organization and Supervision of the Reading Program (ASC)
- EDN 543—Reading in the Secondary School (SSC)

2. Approved electives	15
---------------------------------	----

These courses specified by the Education Department to insure meeting elementary education major requirements.

III. Balance of Courses.

Students will fulfill the balance of courses requirement by taking one-half of their required courses and one-half of their elective courses at each College. A guide to the location of the courses follows these program outlines.

*See departmental section on balance of courses.

COURSE REQUIREMENTS EARLY CHILDHOOD EDUCATION

	<i>Hours</i>
I. Professional Sequence Courses	25
EDN 627—Child Growth and Development (ASC)	
EDN 631—Social Foundations of Education (ASC)	
or	
EDN 637—Foundation of Early Childhood Education (SSC)	
EDN 647—Early Childhood Education Curriculum (SSC)	
EDN 657—Early Childhood Education Methods (ASC)	
EDN 671—Educational Research (ASC)	
II. Courses appropriate to the early childhood education major	35
A. Content courses to cover diversified areas	30
1. Two courses from:	10
EDN 540—Teaching Language Arts in Elementary School and ECE (ASC)	
EDN 541—Methods of Teaching Reading (ASC) — required if a reading course not taken previously.	
EDN 542—Reading and Literature for Children (SSC)	
2. Three courses from:	15
EDN 591—Science for Elementary and ECE Teachers (ASC)	
MATH/EDN 592—Modern Mathematics for Elementary and ECE Teachers (ASC)	
EDN 628—Movement Exploration and Motor Learning in Children (SSC)	
EDN 658—Creative Activities in Art, Music, Dance, and Drama (SSC)	
EDN 691—Environmental Science (ASC)	
EDN 697—Social Studies for Elementary and ECE Teachers (ASC)	
3. Required:	5
EDN 802—Practicum in ECE (ASC or SSC)	
B. Electives	5
EXC 522 must be taken if an appropriate course in exceptional children has not been taken previously.	
<i>Selected with advisement.</i>	
EDN 521—Tests and Measurements (ASC)	
EDN 522—Introduction to Exceptional Children (SSC)	
EDN 638—The Young Child and His Family, School, Community (ASC)	
EDN 651—Newer Teaching Media II (ASC)	
III. Balance of Courses.	
Students will fulfill the balance of courses requirement by taking one-half of their required courses and one-half of their elective courses at each College.	
A guide to the location of the courses follows these program outlines.	

COURSE REQUIREMENTS SPECIAL EDUCATION

Quarter Hours

I. Professional Sequence 20

Same as Elementary Education Professional Sequence

EDN 621 or EDN 622
EDN 631

EDN 641
EDN 671

II. Specialization Courses 30

EXC 522
EXC 680
EXC 681

EXC 685
EXC 686
EXC 687

EXC 700 may be taken
in lieu of 685, 686, and
687, but five additional
elective hours are needed
to compensate for lost
hours (EXC 700 is only a
10-hour credit course).

III. Electives 10

A course in the teaching of reading must be taken if not taken previously.

EXC 525
EXC 526

EXC 623
EXC 654

EXC 673
EDN 653

IV. Balance of Courses.

Students will fulfill the balance of courses requirement by taking one-half of their required courses and one-half of these elective courses at each College. A guide to the location of the courses follows these program outlines.

BALANCE OF COURSES FOR EDUCATION DEPARTMENT COURSES

*The educational supervision courses, EDN 581, 582, and 583, are open only to students who receive special permission to enroll in them. These courses deal with the preparation of teachers for the supervision of student teaching, an undergraduate activity on each campus. The departments on each campus *may* arrange for team teaching with a representative from each College.

**Courses with a double asterisk are offered at both Colleges.

Savannah State College

Armstrong State College

Professional Sequence Courses

EDN 621 or 622
EDN 641

EDN 631
EDN 671

Content Courses for Elementary Education

EDN 542	ZOO/EDN 692	EDN 540	EDN 691
EDN 601	BIO/EDN 693	EDN 541	EDN 697
EDN 642	PSi/EDN 695	EDN 591	MATH/EDN 592
EDN 643	CHEM/EDN 694		
EDN 696			

Additional Courses for Elementary Education Programs

EDN 543	EDN 644	EDN 703	EDN 521	EDN 653	EDN 702
EDN 611	EDN 661	EDN 673**	EDN 551	EDN 654	EDN 673**
EDN 632	EDN 662	EDN 700**	EDN 625	EDN 672	EDN 700**
			EDN 651		

EDN 581*, EDN 582*, and EDN 583*

Early Childhood Education Courses

EDN 628	EDN 627
EDN 637	EDN 638
EDN 647	EDN 657
EDN 658	EDN 802**
EDN 802**	

Special Education Courses

EXC 522	EXC 536	EXC 623	EXC 681
EXC 525	EXC 680	EXC 654	

NOTE: EXC 685, EXC 686, and EXC 687 may be taken at both Colleges but at least one of these three courses must be taken at each College.

COMPREHENSIVE EXAMINATION

A committee of the faculty of the Joint Graduate Education Department will administer an oral examination to all candidates for the Master's degree. The chairman of the examining committee will be the student's adviser. The student and his adviser will select the other two members of the examining committee. This committee will have at least one representative from each of the two campuses. The committee should also have a representative from one of the content areas on the student's degree plan.

The chairman will select, in consultation with the student, the date, time, and place for the examination and will report this information and the results of the examination to the Coordinator.

The Coordinator shall notify the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date and time of the examination and the composition of the Committee. The result of the examination will be reported to the Deans for Graduate Studies within three days after the examination.

Graduate Courses in Education

EDUCATION 521. Tests and Measurements. (5-0-5). ASC.
Principles and procedures in evaluating pupil growth.

EDUCATION 540. Teaching Language Arts in Elementary School. (5-0-5). ASC.

Exploration in the four broad areas of the language arts. Investigation of pertinent research of the past decade; opportunities for enriching experiences with media through demonstration.

EDUCATION 541. Methods of Teaching Reading. (5-0-5). ASC.

Basic principles and methods underlying the elementary school reading program.

EDUCATION 542. Reading and Literature for Children. (5-0-5). SSC.

This course is designed to acquaint elementary teachers with the stimulating language environment of the wide world of literature for children. The literature approach to language learning seeks to assist the teacher in guiding children to become active, sensitive learners who seek to explore, inquire, and discover.

EDUCATION 543. Reading in the Secondary School. (5-0-5). SSC.

This course is designed to acquaint teachers with teaching reading in content areas.

EDUCATION 551. Newer Teaching Media I. (5-0-5). ASC.

The first course in a two-course sequence. Multisensory learning and the utilization of audiovisual materials, newer teaching hardware, and programmed materials.

EDUCATION 581. Directing and Evaluating Student Teaching. (5 quarter hours). ASC and SSC.

Information, skills and understandings required for effective supervision of student teachers. Selected teachers.

EDUCATION 582. Internship for Supervising Teachers. (5 quarter hours). SSC and ASC. (Grade awarded, S or U only.)

Cooperative field experience involving public school teachers, student teachers, college personnel.

EDUCATION 583. Seminar in Supervision. (5 quarter hours). SSC and ASC.

An opportunity for experienced supervising teachers to evaluate criteria and to develop plans for increasing skills in guiding student teachers.

EDUCATION 591. Science for Elementary Teachers. (5-0-5). ASC.

Opportunities for acquiring basic knowledge in science appropriate for the elementary grades.

EDUCATION 601. The Language Arts in the Educative Process. (5-0-5). SSC.

Provisions for an examination of language developments. Current issues and recent research in the language arts curriculum. Theoretically and practically, students will be aided in finding adequate solutions to language problems which confront them in the daily teaching experience.

EDUCATION 661. Philosophy and History of Education. (5-0-5). SSC.

Modern philosophical systems and their impact on educational theory and practice.

EDUCATION 621. Advanced Studies in Human Growth and Development. (5-0-5). SSC.

A comprehensive view of human growth and development with emphasis upon the recent literature in these fields.

EDUCATION 622. The Nature and Conditions of Human Learning. (5-0-5). SSC.

An advanced study of the various theories of learning with emphasis upon the latest ideas in this field.

EDUCATION 625. Contemporary Problems in Educational Psychology. (5-0-5). ASC. Prerequisites: Two or more courses in psychology or sociology or a combination of the two.

A seminar to explore contemporary problems of a psycho-social nature affecting education.

EDUCATION 631. Social Foundations of Education. (5-0-5). ASC.

Basic graduate course in the contribution of the social sciences to education, focused on the significant issues and problems of education.

EDUCATION 632. Education and Minority Group Problems. (5-0-5). SSC.

A study of intergroup education related to the problems of American ethnic, racial, and religious minorities.

EDUCATION 641. Curriculum Planning. (5-0-5). SSC.

Trends, issues, and understandings needed for curriculum development and teaching.

EDUCATION 642. Seminar in Elementary Education. (Credit varies.) SSC.

Opportunities to analyze issues, theories and practices in elementary education. Credit, one to five quarter hours.

EDUCATION 643. Problems in Reading. (5-0-5). SSC.

Investigation of problems met in the teaching of reading.

EDUCATION 644. Issues in Diagnosing and Prescribing in the Reading Process. (5-0-5). SSC. Prerequisites: EDN 541, EDN 643, or approval of instructor.

Designed to evaluate primary issues in differentiated instruction. Examination of techniques employed in diagnosing and prescribing for reading difficulties.

EDUCATION 651. Newer Teaching Media II. (5-0-5). ASC. Prerequisite: EDN 551.

An advanced course continuing in-depth study of newer teaching media.

EDUCATION 653. Remedial Reading. (Practicum). (5-0-5). ASC. Prerequisite: EDN 644 or approval of instructor.

A study of the various methods and materials utilized to test and teach remedial readers. The student will be required to tutor one poor reader.

EDUCATION 661. Principles and Practices of Guidance. (5-0-5). SSC.

An introduction to the philosophy and procedures of guidance in both the elementary and secondary school.

EDUCATION 662. Guidance in Elementary Schools. (5-0-5). SSC.

Application of the guidance point of view and guidance techniques to the elementary school classroom. Emphasis is upon the teacher's role in cooperating with professional guidance workers.

EDUCATION 671. Educational Research. (5-0-5). ASC.

Methodology of educational research and its application to instruction and guidance.

EDUCATION 672. Field Project. (5 hours credit). SSC.

An "on-the-job" research project dealing with improvement in the student's specific situation.

EDUCATION 673. Individual Research. (5 hours credit). ASC or SSC.

EDUCATION 675. Individual Study in Education. (1 to 5 hours). ASC. Opportunities provided for supervised research and independent study in selected areas. Research and reading in education to meet the needs of students involved. Designed for students with a knowledge of research. All work offered on an individual basis with the approval of department chairman, advisor, and instructor concerned. Prerequisite: EDN 671.

EDUCATION 676. Individual Study in Education. (5 hours). SSC. Advanced individual study similar to EDN 695. Approval of department chairman, advisor, and instructor concerned necessary. Prerequisites: EDN 671.

EDUCATION 691. Environmental Science. (5-0-5). ASC.

Exploration of science principles through problem-solving. Designed to make environmental science situations meaningful.

ZOO/EDN 692. Zoology for Elementary Teachers. (5-0-5). ASC.

Modern approaches to teaching the biological sciences. Emphasis on understanding of life processes in the animal kingdom.

BOT/EDN 693. Botany for Elementary Teachers. (5-0-5). SSC.

Lecture — laboratory course dealing with principles involved in classifying and identifying plant life.

CHEM/EDN 694. Chemistry for Elementary Teachers. (5-0-5). SSC.

A study of the more important metallic and non-metallic elements with emphasis on practical application at the elementary school level.

PSci/EDN 695. Earth Science for Elementary Teachers. (5-0-5). SSC.

Composition of earth, classification and identification of rocks and minerals.

EDUCATION 696. Geography for Elementary Teachers. (5-0-5). SSC.

A critical examination of instructional procedures and techniques in teaching geography in elementary grades. Selection, organization and presentation of structured facets of human environment, both cultural and physical. Emphasis given to the conceptual approach in the analysis of space and regional interaction.

EDUCATION 697. Social Studies for Elementary Teachers. (5-0-5). ASC.

Investigation of newer approaches to social studies teaching. Emphasis on related skills as map and graph reading. Analysis of behavioral objectives for social studies teaching.

EDUCATION 700. Internship. (10 hours credit). ASC or SSC. (Grade awarded, S or U only.)

Students who hold teaching positions in schools and/or clinic settings will be supervised by college staff members for one academic year. Supervisors will observe and hold conferences with each candidate. Students must complete one academic year to receive credit.

EDUCATION 702. Seminar in Education for Staff Development. (Variable credit). ASC.

Offered on demand. Prerequisites: Students must be enrolled in an approved staff development activity sponsored by a local school system. Admission to the course must be approved by the student's adviser and by the department head.

This course is designed to provide a framework through which teachers and local school systems, in conjunction with the college, may offer graduate credit for approved staff development activities. Credit for this course may be approved for either content or elective work.

With a change in content, this course may be repeated for additional credit.

EDUCATION 703. Seminar in Education for Staff Development. (Variable credit). SSC.

Offered on demand. Prerequisites: Students must be enrolled in an approved staff development activity sponsored by a local school system. Admission to the course must be approved by the student's adviser and by the department head.

This course is designed to provide a framework through which teachers and local school systems, in conjunction with the college, may offer graduate credit for approved staff development activities. Credit for this course may be approved for either content or elective work.

With a change in content, this course may be repeated for additional credit.

Graduate Courses in Education — Early Childhood Education

EDN 627. Child Growth and Development. (5-0-5). ASC.

Lecture and laboratory. Basic concepts and problems of child development; observation, behavior patterns, child study.

EDN 628. Movement Exploration and Motor Learning in Children. (5-0-5). SSC.

Develop understandings, skills, and teaching techniques and methods in the basic activities appropriate to the teacher of movement education.

EDN 637. Foundations of Early Childhood Education. (5-0-5). SSC.

Historical developments, philosophy and objectives of nursery schools, kindergartens, and day care centers; exploration of teacher-child and teacher-family interactions, diagnosis and evaluation of children.

EDN 638. The Young Child and His Family, School, Community. (5-0-5). ASC.

Interaction with community for services and resources. Family study from many different angles, utilizing data from various fields, developing skills in procedures and techniques for working with parents.

EDN 647. Early Childhood Education Curriculum. (5-0-5). SSC.

Content, approaches, methods and materials appropriate for young child as presented in interdisciplinary or experience approach emphasizing how language arts, science, mathematics, social studies, and the creative arts are adopted to skills and needs of children.

EDN 657. Early Childhood Education Methods. (5-0-5). ASC.

A study of research and programs for children under eight and implications for program development. Developing skills in translating concepts into classroom practice for young children.

EDN 658. Creative Activities in Art, Music, Dance and Drama. (5-0-5). SSC.

Course focuses on activities in each of four areas and presented in an interdisciplinary approach.

EDN 802. Practicum in Early Childhood Education. (5 hours credit). ASC or SSC. (Grade awarded, S or U only.)

Supervised experience in classroom with children under six. Seminars and projects planned according to students' needs.

Graduate Courses in Education— Exceptional Children

EXC 522. Introduction to Exceptional Children. (5-0-5). SSC.

An introductory study of the identification, diagnosis, and education of the atypical child.

EXC 525. Mental Hygiene in Teaching. (5-0-5). SSC.

A consideration of the forces and influences on what constitutes normal behavior in personal and social relationships within the school setting. Student behavior, teacher behavior, and student-teacher interaction dynamics will receive major attention. Open to qualified undergraduate students, graduate students, and teachers seeking renewal of certificates.

EXC 526. Psychology of Abnormal Behavior. (5-0-5). SSC.

EXC 623. Assessment and Measurement of the Exceptional Child. (5-0-5). ASC.

This course will emphasize the meanings and interpretations of psychological, psychiatric, educational, and other evaluations. It will attempt to help the teacher understand and make relevant the test specialists' report.

EXC 654. Behavioral Intervention Procedures for Children. (5-0-5). ASC.

To acquaint students with historical background, developments, concepts, definitions, terminology, and techniques of behavioral intervention, as well as application of such procedures.

EXC 673. Independent Research. (5-0-5). ASC or SSC.

EXC 680. Behavior Pathology in Children. (5-0-5). SSC. Prerequisite: EXC 522.

A study of the epidemiology, etiology, prognosis, and treatment of behavior disorders in children. An extensive examination of the social milieu will characterize the course.

EXC 681. Education of the Emotionally Disturbed. (5-0-5). ASC. Prerequisite: EXC 680.

The student will survey the various types of programs and approaches historically and currently in operation for the emotionally disturbed child. Emphasis will be placed on those programs within the public school setting.

EXC 685-686-687. Practicum in Special Education. (5 hours credit each course). (Grades awarded, S or U only.)

EXC 685. Five hours to be taken among the first twenty-five hours of the student's program. During this time the student will be required to interact with behavior disordered and/or multiple handicapped children a minimum of eight clock hours per week in programs designed to ameliorate the disability. It is recommended that the student participate in two or more programs. ASC or SSC.

EXC 686. Prerequisite: EXC 685. Five quarter hours of individual studies under the direction of the student's adviser, or the adviser's designate, to be taken prior to the five final hours of practicum. The individual studies program will be designed so that the student develops proficiency in a minimum of one mode of treatment for behavior disordered children. The student will be required not only to develop expertise in a theoretical approach but be afforded the opportunity to interact with a student, or students, in tutorial situations for practical applications of the theoretical model selected for study. ASC or SSC.

EXC 687. Prerequisite: EXC 686. Five hours taken during the terminal stages of the student's program. The student will be required to serve a minimum of ten clock hours per week in facilities designed for behavior disordered and/or multiple handicapped children. The student will be expected to have direct involvement in teaching exceptional children. A portion of this five quarter hours must be served in a residential facility. ASC or SSC.

EXC 700. Internship. (10 hours credit). ASC or SSC. (Grade awarded, S or U only.) See EDN 700 for general requirements; course runs one academic year.

ENGLISH

FACULTY

Dr. Luetta Milledge, Department Head, (SSC); Dr. Hugh Pendexter, Department Head, (ASC); Dr. Brooks, (ASC); Dr. Daub, (SSC); Dr. Jones, (ASC); Dr. Killorin, (ASC); Dr. Lawson, (ASC); Dr. Lunz, (SSC); Dr. Maher, (SSC); Dr. O'Neil, (SSC); Dr. Propst, (ASC); Dr. Seale, (ASC); and Dr. Strozier, (ASC).

Program of Study Leading to the Degree
Master of Education in English

Coordinator — 1977, Dr. Luetta Millege

OBJECTIVES

The Department of English, in cooperation with the Department of Education, offers a program of study leading to the Master of Education degree with a concentration in English. The objectives of this program of study are:

1. To upgrade the teaching of secondary school English by increasing the competencies of English teachers in the areas of linguistics, composition, and literature;
2. To enable teachers of English in Secondary schools to pursue study that will enrich their skills, knowledge, and understanding in the teaching of language, composition, and literature;
3. To provide opportunities for professional growth and cultural enrichment for individuals holding the bachelor's degree but having no further degree or certification objectives;
4. To enable teachers of English in secondary schools to qualify for the T-5 certificate.

ADMISSION REQUIREMENTS AND GENERAL COURSE PREREQUISITES

All students entering the M.Ed. program in English must present the Graduate Record Examination Advanced Test in Literature and English. A student who scores 560 or above and who meets the general requirements for Regular Admission will be given Regular Admission Status. A student who scores below 560 will be limited to Conditional status (or Special status if required by other admissions criteria) and will be required to retake the examination until the 560 score is attained or, alternatively, must take supporting work as prescribed by the English Department as a condition for Regular status and as a condition for enrollment in any graduate English course. The prescribed work shall consist of four undergraduate courses on the 300 or 400 level, approved by the student's adviser, in which no grade lower than B shall be made. Half of these courses shall be taken on each Campus. It is crucial that the student have his adviser's approval before scheduling undergraduate courses as supporting work. (These approved undergraduate courses should be entered on the students advisement sheet.)

Upon meeting one of these two conditions (560 score or completing the prescribed supporting work), the student may enroll in graduate English courses and may also advance to Regular status in accordance with general admission requirements.

ADVISEMENT

Each student admitted to the program in English will be assigned an academic adviser from the English Department and a professional adviser from the Education Department. As soon as the student is notified of this assignment, he should arrange for a conference with his advisers.

COURSE REQUIREMENTS

Summary of Requirements

	<i>Quarter Hours</i>
I. Professional Education Courses	15
II. English Courses (required, plus electives)	40
III. Free Elective Courses	5
IV. Balance of Courses	

- I. Professional Education Courses 15
- EDN 621—Advanced Studies in Human Growth and Development (SSC)
- or
- EDN 622—The Nature and Conditions of Human Learning (SSC)
- or
- EDN 631—Social Foundations of Education (ASC)
- EDN 641—Curriculum Planning (SSC)
- EDN 671—Educational Research (ASC)

- II. English Courses 40
- A. A student may count no more than 15 hours of 500 level work toward the degree.
- B. English 620, 621, and 622 are required of all students.
- C. English 500, 503, 690, and 691 may be taken twice if the course is offered a second time with a different topic.

- III. Free Elective Course 5
- Because the courses in the teaching of reading and in exceptional children are required for certification, a student must present at least one of these as part of his undergraduate record before he will be admitted to candidacy for the M.Ed. degree in English or must present the equivalent graduate course in addition to the sixty (60) hours normally required in the M.Ed. program.

- IV. Balance of Courses.
- Students will fulfill the balance of courses requirement by taking one-half of their required courses and one-half of their elective courses at each College. A guide to the location of the courses follows:

<i>Savannah State College</i>		<i>Armstrong State College</i>	
ENG 503	ENG 642	ENG 500	ENG 641
ENG 621	ENG 660	ENG 630	ENG 650
ENG 622	ENG 665	ENG 625	ENG 662
ENG 626	ENG 666	ENG 627	ENG 664
ENG 630	ENG 691	ENG 631	ENG 690
		ENG 640	

A guide to the campus location of the Education courses is in the Education Department section of this Bulletin.

COMPREHENSIVE EXAMINATION

Each candidate for the Master of Education degree with a concentration in English must pass a written comprehensive examination. The comprehensive examination will be based on the reading list in language and literature which must be secured by the student at the time of his matriculation. The student may choose to be examined under any reading list in force during the time of his enrollment. Copies of the reading list are available in the office of the Coordinator. For more specific information concerning the comprehensive examination, contact the Coordinator.

The comprehensive examination covers two areas: 1) literature before 1800; 2) literature after 1800. The separate examinations are to be taken in the course of the student's program, preferably before the last quarter. At least one of the tests in literature will include a question concerning bibliographical and research procedures. The student must pass all three examinations in order to receive his degree. After two unsuccessful attempts at any one part of the examination, a student may not apply to repeat that section for at least two quarters during which he may do guided study to take recommended courses in order to make up his deficiencies. In light of the comprehensive requirements, the student is strongly urged to take an additional course in linguistics. Except for the stipulation that he must wait at least two quarters if he fails any examination twice, there is no limit on the number of times that a student may take an examination. Examination results are designated S or U.

The Coordinator shall notify the student and the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date and time of the examination and the composition of the committee. The result of the examination will be reported to the Deans for Graduate Studies within seven days after the examination.

Graduate Courses in English

Regular admission status is prerequisite to enrollment in any graduate course in English.

ENGLISH 500. Special Topics. (1 to 5 hours credit). ASC.

ENGLISH 503. Special Topics. (1 to 5 hours credit). SSC.

ENGLISH 620. Practical Criticism I. (5-0-5). ASC.

Composition and literary theory will constitute the basis for practical criticism of literary works. The relationship between literary theory and problems of teaching composition and literary interpretation will be explored, and various contexts (i.e., formalistic, socio-historical, archetypal) for interpreting the work of literature will be examined. Course requirements will include oral and written analysis of literary works written before 1800, selected primarily from the Graduate English reading list.

ENGLISH 621. Practical Criticism II. (5-0-5). SSC.

Course description is the same as ENG 620 above, but utilizes literary works written after 1800, selected primarily from the graduate English reading list.

ENGLISH 622. Approaches to Language. (5-0-5). SSC.

A survey of the components of language study as well as the various approaches to language, meaning, and syntax. Relationships between the teacher's language study and classroom implementation of various facets of it will be explored.

ENGLISH 625. Chaucer. (5-0-5). ASC.

ENGLISH 626. Shakespeare. (5-0-5). SSC.

ENGLISH 627. Milton. (5-0-5). ASC.

ENGLISH 630. American Literature to 1840. (5-0-5). SSC.

ENGLISH 631. American Literature, 1840-1912. (5-0-5). ASC.

ENGLISH 640. British Literature, Before 1660. (5-0-5). ASC.

ENGLISH 641. British Literature, 1660-1830. (5-0-5). ASC.

ENGLISH 642. British Literature, 1830-1912. (5-0-5). SSC.

ENGLISH 650. British and American Literature, 1912 to the Present. (5-0-5). ASC.

ENGLISH 660. Studies in Ethnic Literature. (5-0-5). SSC.

ENGLISH 662. Literature: Its Intellectual Backgrounds. (5-0-5). ASC.

ENGLISH 664. Studies in Comparative Literature. (5-0-5). ASC.

ENGLISH 665. Descriptive Linguistics and Transformational Grammar. (5-0-5). SSC.

A study of the English sound system, the system of word composition and transformational syntax.

ENGLISH 666. Historical Linguistics. (5-0-5). SSC.

ENGLISH 690. Special Studies: Independent Study or Seminar (1 to 5 hours credit). ASC.

ENGLISH 691. Special Studies: Independent Study or Seminar. (1 to 5 hours credit). SSC.

HISTORY AND POLITICAL SCIENCE

FACULTY

Dr. Elmer Dean, Department Head, (SSC); Dr. Roger Warlick, Department Head, (ASC).

History

Dr. Duncan, (ASC); Dr. Gross, (ASC); Dr. Lanier, (ASC); Dr. Patterson, (ASC); Dr. McIver, (SSC); Dr. Simpson, (SSC); and Dr. Smith, (SSC).

Political Science

Dr. Byers, (SSC); Dr. Clark, (ASC); Dr. Coyle, (ASC); Dr. Harris, (SSC); Dr. McCarthy, (ASC); Dr. Newman, (ASC); Dr. Rhee, (ASC); and Dr. Walton, (SSC).

Programs of Study Leading to the Degree Master of Education in History and in Political Science

Coordinator — 1977, Dr. Roger Warlick

OBJECTIVES

The objectives of the graduate programs in history and in political science are:

1. To increase the academic and professional skills, the competence and the enthusiasm of secondary teachers in history and political science and in social studies generally.
2. To increase the teacher's knowledge and understanding of the nature and conditions of learning and the learner, at the same time making the teacher aware of the major features and problems of secondary education in the American social order.
3. To accomplish these objectives by working jointly in a situation reflective of the racial and social make-up of American society and, in so doing, to provide a context in which teachers themselves may develop personally as well as academically.

ADMISSION REQUIREMENTS

Students entering the M.Ed. program in history or in political science must satisfy all general admission requirements of the Joint Graduate Studies Program, including the requirement that the GRE Aptitude or NTE Common, with appropriate advanced or area test, be completed prior to full admission. The results of these examinations will then serve as a basis for academic advisement.

Students must also satisfy a prerequisite of 15 quarter hours of undergraduate work in the major discipline before any course can be taken for graduate credit.

TRANSFER OF CREDIT

Students who have earned graduate credits at one or more accredited institutions may, under certain circumstances, transfer a limited number of quarter hours of such credits to be applied toward the M.Ed. degree programs in history and political science. Such transfer of credits is handled on an individual basis and requires the written approval of the student's adviser and the Coordinator.

ADVISEMENT

Shortly after his admission to the program in either history or political science, each student should contact the Coordinator to secure an adviser. As soon as he is notified of his assigned adviser, the student should arrange for a conference with his adviser and begin planning his degree program. Failure by the student to consult regularly with his adviser may greatly lengthen the time necessary to complete the program. Each student should feel free to consult his adviser as often as is necessary.

COURSE REQUIREMENTS

- A. Major in History.
The typical history program for those students already holding a T-4 certificate in an appropriate field is outlined below:

	<i>Quarter Hours Minimum</i>
I. History Courses	30
II. Professional Education Courses	15
EDN 622—Nature and Conditions of Human Learning,	
or	
EDN 631—Social Foundations of Education	
and	
EDN 641—Curriculum Planning	
and	
EDN 671—Educational Research	
III. Approved Electives	15
An appropriate course in exceptional children (e.g., EXC 522)	
must be taken if not taken previously.	
TOTAL	60

B. Major in Political Science.	
The typical political science program for those students already holding a T-4 certificate in an appropriate field is outlined below:	
I. Political Science Courses	30
These courses must include 5 hours in each of the following areas:	
a. American government and public policy.	
b. Comparative politics.	
c. International relations and foreign policy.	
d. Political theory.	
II. Professional Education Courses	15
Same as Professional Education Courses for History.	
EDN 622 or EDN 631 and EDN 641, and EDN 671	
III. Approved Electives	15
An appropriate course in exceptional children (e.g., EXC 522) must be taken if not taken previously.	
TOTAL	
	60
C. Special program (for students without T-4 certification). Students without prior certification may need a total of 70-80 quarter hours to complete the M.Ed. program in either History of Political Science. An illustrative program is shown below, but the student will need individual guidance.	
I. Professional Education	40
a. Foundations Courses	10
Examples: EDN 611, EDN 622, EDN 631	
b. Methods and Curriculum	10
Example: EDN 641 and others	
c. Educational Research — EDN 671	5
d. Student teaching or equivalent on-the-job experience—workshops, etc.	10
e. Electives	5
II. History or Political Science Courses	30
See section below on “Use of Electives” for further information on hours in the major field.	
D. General Requirements.	
Use of Electives	
The flexibility provided by the 15 hours of “Approved Electives” normally makes it possible to meet the other program guidelines within a 60-hour total. But, students should be aware, for example, that counting both graduate and undergraduate classwork, they are required to have a total of at least 30 hours in their major teaching area (i.e., American or European History, or American Government). There may also be areas where undergraduate preparation was weak or unavailable, such as professional education, non-western traditions, etc. Such problems can best be solved on an individual basis with the help of the faculty adviser.	

Students should be aware that regardless of their major, state certification criteria recommend that social studies teachers include in their programs preparation in the following: American history and government, conflicting ideologies, the modern world, Western heritage, and non-Western traditions.

E. Balance of Courses.

Students will fulfill the balance of courses requirement by taking one half of their required courses and one half of their elective courses at each of the two colleges.

Each College offers an almost equal number of courses every quarter. Courses to be offered at the two Colleges during the 1976-1977 and 1977-1978 academic years are listed below. Other courses are authorized in the curriculum and are listed in the following sections on graduate courses in history and in political science. These courses *may* be offered on demand.

History Courses

<i>Savannah State College</i>			<i>Armstrong State College</i>		
HIS 517	HIS 609	HIS 681	HIS 500	HIS 535	HIS 641
HIS 531	HIS 621	HIS 695	HIS 514	HIS 619	HIS 622
HIS 534	HIS 640	HIS 696	HIS 515	HIS 633	HIS 690
HIS 547	HIS 680	HIS 690	HIS 516		
HIS 606					

Political Science Courses

<i>Savannah State College</i>			<i>Armstrong State College</i>		
POS 600	POS 624	POS 683	POS 511	POS 546	POS 620
POS 608	POS 625	POS 684	POS 535	POS 605	POS 626
POS 610	POS 635	POS 690	POS 540	POS 606	POS 691
POS 616	POS 680				

A guide to the location of the Education courses is in the Education Section of this *Bulletin*.

COMPREHENSIVE EXAMINATION

An integral part of the graduate experience is the achievement of a comprehensive understanding of the analytical skills and of the current state of knowledge and scholarship basic to one's field. It is the purpose of the Comprehensive Examination both to demonstrate this understanding and to aid in further synthesizing its many aspects. Thus, the examination itself should be in part a new experience, producing new insights and not merely a rehearsal of previous ones.

Satisfactory performance on comprehensive examinations, written and/or oral, will thus be required of all degree candidates. Candidates

should notify their major professor and the Coordinator of the program of their readiness to be examined at the time they apply for the degree — i.e., no later than mid-term of their next-to-final quarter. At this time the specific fields and reading list to be covered will be defined, the make-up of the examining committee determined, and the date of the exam set. The examination normally occurs before mid-term of the student's final quarter.

The Coordinator shall notify the student and the Deans for Graduate Studies ten days prior to the examination concerning the proposed place, date, and time of the examination and the composition of the committee. The result of the examination will be reported to the Deans for Graduate Studies within three days after the examination.

The Coordinator will notify the student regarding the result of the examinations. The examination papers and/or comments of the examining committee will become part of the student's permanent file in the Department, and the student may request a conference with his major professor and advisers for the purpose of reviewing the examination papers.

A student may repeat the Comprehensive Examinations as many times as necessary to demonstrate the required level of competence.

Graduate Courses in History

In addition to any specifically noted course prerequisites, there is the general prerequisite that a student must have completed the equivalent of 15 hours of undergraduate work in history to become eligible to take graduate work for credit toward the Master of Education degree in History.

HISTORY 500. Historical Method. (5-0-5). ASC.

An introduction to the nature and method of historical research; treats problems of investigation, organization, and writing through discussion and actual research experience in local history.

HISTORY 501. Seminar in Georgia History. (5-0-5). SSC.

A research seminar dealing with various aspects of Georgia's past with emphasis on original research and writing.

HISTORY 502. United States: Colonial and Revolutionary. (5-0-5). ASC.

A study of the discoveries of the New World and the settlement and growth of the English colonies of North America, the American triumph over France in the New World, the drastic change in British

colonial policy and the rise of American opposition to it, the achievement of independence and the establishment of the United States under the Constitution.

HISTORY 505. United States: 1914 to Present. (5-0-5). ASC.

Covering the most recent period in U.S. History, the course emphasizes political, economic, and social issues.

HISTORY 514. United States: Diplomatic History I. (5-0-5). ASC.

Considers American objectives and policies in foreign affairs from colonial times through the Civil War.

HISTORY 515. United States: Diplomatic History II. (5-0-5). ASC.

A continuation of History 514 to the present.

HISTORY 516. United States: Constitutional History. (5-0-5). ASC.

A study of the origins, content, and expansion of the Constitution of the United States.

HISTORY 517. Reform Movements in American History. (5-0-5). SSC.

A research and readings course designed to acquaint the student with the dynamics of American reformism.

HISTORY 531. History of Latin America. (5-0-5). SSC.

A survey of the social, cultural, economic, political, religious, and intellectual history of Latin America from colonial times to present.

HISTORY 532. The Russian Revolution. (5-0-5). ASC.

An examination of the Russian revolutionary tradition, the causes for the collapse of Tsarism, the Bolshevik Revolution, and the Bolshevik victory in the Russian Civil War.

HISTORY 534. Contemporary Latin America. (5-0-5). SSC.

Twentieth century influences that are producing socio-economic unrest in much of Latin America.

HISTORY 535. History of Soviet Foreign Policy. (5-0-5). ASC.

The course reviews historically the development of Soviet Foreign policy with West European States, notably Germany, and also with the non-European world through 1917-1940, World War II, and Cold War phases. Special attention will be given in this last phase to U.S.-Soviet rivalry, Soviet relations with other communist states in Eastern Europe, China, and with the Third World, and to the recent moves toward detente.

HISTORY 547. The French Revolution. (5-0-5). SSC.

The ideas and events of the Old Regime and the Enlightenment in France, with emphasis on the impact of the French Revolution and the career of Napoleon upon the major European nations.

HISTORY 602. United States: Tyler to Lincoln. (5-0-5). SSC.

An intensive investigation of the social, economic, political, and intellectual conditions in the United States between 1840 and 1860.

HISTORY 603. United States: Nineteenth Century Politics. (5-0-5). SSC.

A research seminar in the course and development of political movements in the United States during the Middle Period.

HISTORY 606. United States: Afro-American History I. (5-0-5). SSC.

A seminar on the history of ideas, culture ideologies, and institutions that influenced Afro-Americans from the colonial period to 1860.

HISTORY 607. United States: Afro-American History II. (5-0-5). SSC.

A seminar in Afro-American thought and institutions — a continuation of History 606. The course critically evaluates Afro-American culture during and following the civil war.

HISTORY 609. History of Afro-American Higher Education. (5-0-5). SSC.

The history of Afro-American higher education from the 19th century to the present with emphasis on method and philosophy.

HISTORY 610. United States: Economic History I. (5-0-5). SSC.

The history, economic ideas, ideologies, practices, and institutions that have influenced Americans from the colonial period to 1860.

HISTORY 611. United States: Economic History II. (5-0-5). SSC.

Post-1860 American economic history and institutions that have influenced Americans from the Civil War to the present. A continuation of History 610.

HISTORY 613. Seminar in the Puritan Ethic. (5-0-5). SSC.

A study of the evolution and secularization of the Puritan ethic in American society. Special emphasis will be given to the theorists who created the ethic and to those thinkers who have attempted to humanize it.

HISTORY 617. Seminar in Pre-1860 Euro-American Reform Movements. (5-0-5). SSC.

Problems in Euro-American cultural, religious, intellectual, and institutional development with special emphasis on cultural nationalism, naturalism, Darwinism, romanticism, and humanitarianism.

HISTORY 619. Studies in American Thought. (5-0-5). ASC.

A reading and research course devoted to the examination of topics in the history of American thought. May be repeated for credit as topics vary.

HISTORY 621. Far East in Modern Times. (5-0-5). SSC.

The strategic economic, political, and ideological factors that shape the destinies of Far Eastern countries will be critically examined. The political actions of the dominant powers of the East, Japan, Communist China, and India, will be studied as well as those of the lesser nations, such as Indonesia, Malaysia, Philippines, Thailand, Burma, Afghanistan, Cambodia, Laos, and the Vietnams. The interplay of the United States and Europe with respect to the economic and political issues affecting the Far East will be high-lighted.

HISTORY 633. Topics in Modern Russian History. (5-0-5). ASC.

Selected topics in 19th and 20th Century Russian intellectual, political, economic, and social history.

HISTORY 636. European Diplomatic History. (5-0-5). SSC.

An intensive study into the origins and development of European diplomacy, the instruments of power, the interrelationship of diplomacy and military forces, the limits of national power, economic objectives, and the fundamentals of national objectives. Europe's special political and military role will be examined, as it applies to Great Britain, France, Germany, Russia, Austria, and Spain. The special impingements of American diplomacy on European national interests will be studied, in complement with such international institutions as the League of Nations, United Nations, Common Market, and NATO.

HISTORY 640. England: Tudor-Stuart Topics. (5-0-5). SSC.

Designed to cover various political, socio-economic, constitutional, and religious issues of English history, 1485-1660. Class concentration will be directed to selected topics or periods which will be augmented by independent student research outside class.

HISTORY 641. England: Restoration-Hanoverian Topics. (5-0-5). ASC.

Designed to cover various political, socio-economic, constitutional, and religious issues of English history, 1660-1815. Class concentration will be directed to selected topics or periods which will be augmented by independent student research outside class.

HISTORY 645. Studies in Early Modern Europe. (5-0-5). ASC.

Selected topics in XVI and XVII century European life will be studied, e.g., the religious controversies, geographical expansion and the scientific revolution. Heavy emphasis will be given independent research and presentations by the student.

HISTORY 650. Topics in Modern European History. (5-0-5). SSC.

A study of the major developments in Europe since 1900, with emphasis upon the origins and impact of the First and Second World Wars.

HISTORY 680. Readings in American History. (5-0-5). SSC.

HISTORY 681. Readings in European History. (5-0-5). SSC.

HISTORY 690. Independent Study. (Credit varies). SSC.

Admission by approval of instructor and the graduate coordinator.

HISTORY 691. Independent Study. (Credit varies). ASC.

Admission by approval of instructor and the graduate coordinator.

HISTORY 695. American Historiography. (5-0-5). SSC.

An extensive survey of the historiographical trends evident in the writing of American History with emphasis on major interpretations and the influence of major historians.

HISTORY 696. European Historiography. (5-0-5). SSC.

Lectures and readings to illustrate the major developments in the study of the European past.

Graduate Courses in Political Science

In addition to any specifically noted course prerequisites, there is the general requirement that a student must have completed the equivalent of 15 hours of undergraduate work in Political Science to become eligible to take graduate work for credit toward the Master of Education degree in Political Science.

POLITICAL SCIENCE 511. American Presidency. (5-0-5). ASC.

Offers an in-depth survey of the office of the Presidency, with the principal emphasis on the relations of the executive branch with the Congress and the Court system. Some attention will be given to the evolution of the Presidency to its present dominant position in the American political process. (Completion of a survey course in American History is desirable.)

POLITICAL SCIENCE 530. Seminar in Empirical Political Thought. (5-0-5). ASC.

A course primarily of readings centered on the analysis of the epistemological and methodological foundations of contemporary political and social science.

POLITICAL SCIENCE 535. Origins of Totalitarianism. (5-0-5). ASC.

An analysis of the socio-psychological bases of modern totalitarian movements. Major emphasis will be placed on pre-World War II Nazi Germany.

POLITICAL SCIENCE 540. Comparative Political Analysis. (5-0-5). ASC.

This course is mainly theoretical. It deals with the various approaches, concepts, and methodologies that are being used in the

analysis of comparative politics, viz: the traditional approach (formal-legal), group theory of politics, systems analysis, structural-functional analysis, communications theory, decision-making theory, game theory, etc. At the same time, each approach is examined as it is used in comparing the politics of various countries.

POLITICAL SCIENCE 546. Far Eastern Government and Politics. (5-0-5). ASC.

Description and comparative analysis of the political systems of Communist China and Japan. Special attention is given to historical development, political institutions and processes, political culture, political socialization, and contemporary problems.

POLITICAL SCIENCE 600. Research Methods in Political Science. (5-0-5). SSC.

This course covers the different methodological approaches to political data, data gathering, and data analysis. It also gives an overview of the philosophy of science.

POLITICAL SCIENCE 603. Public Policy. (5-0-5). SSC.

Here an analysis is made of the way public policy is made, who influences it, and the varied techniques Political Scientist have developed to study it.

POLITICAL SCIENCE 604. Principles of Public Administration. (5-0-5). SSC.

This course is to acquaint the student with the chief concepts, theories, ideas and models in Public Administration.

POLITICAL SCIENCE 605. State Government. (5-0-5). ASC.

A comparative study of the structure, function and political process of state, county and other special government units in the United States. Special emphasis will be given to the states of Georgia, Florida, and South Carolina. Field studies will be utilized to gain first-hand knowledge whenever possible.

POLITICAL SCIENCE 606. Urban Government. (5-0-5). ASC.

A study of the structure, function, and political processes of city and other local governments in the United States. Special attention will be given to the workings of city government in the state of Georgia in general and to the cities in the Savannah area in particular. Field studies will be utilized to gain first-hand knowledge whenever possible.

POLITICAL SCIENCE 608. Urban Politics. (5-0-5). SSC.

This course surveys the theories, the approaches, models, and the techniques of political activity in the urban metro areas. In addition, it also reviews the proposals and solutions for urban reform.

POLITICAL SCIENCE 610. American Political Parties. (5-0-5). SSC.

A seminar which will consider the structural-functional nomenclature of American political parties as well as make analytical inquiry into their growth, development, aims, and primary concerns.

POLITICAL SCIENCE 615. American Supreme Court. (5-0-5). SSC.

A seminar analyzing the key problems and issues in the judicial process: judicial behavior, judicial policy making, judicial biography, and the court in the political process.

POLITICAL SCIENCE 616. Black Politics. (5-0-5). SSC.

An analysis is made in this course of the areas of specialization in Black politics as well as the numerous political activities in the Black community.

POLITICAL SCIENCE 619. American Foreign Policy. (5-0-5). SSC.

This course will span the period from the American Revolution to the Vietnamese War. Areas of major interest will be America's early isolation, its emergence as an International power, participation in major wars, and as a primary force in the United Nations. The course will examine the relationship of the United States with the USSR, United Kingdom, Mainland China, and other world powers. This study will show the supporting roles of the U.S. Military, the CIA, AID, USIA, Peace Corps, and other agencies.

POLITICAL SCIENCE 620. Topics in International Relations. (5-0-5). ASC.

Prerequisite: undergraduate work in the field or permission of the instructor. A seminar course with specific titles announced as offered. May be repeated for credit as topics vary.

POLITICAL SCIENCE 621. International Relations: Far East. (5-0-5). SSC.

The politics, people, movements and ideologies are surveyed for the impact on Asia and the world.

POLITICAL SCIENCE 623. International Relations: Africa. (5-0-5). SSC.

The diplomacy, alliances and internal politics of the Black African countries are analyzed and studied for trends and continuities.

POLITICAL SCIENCE 624. USSR and Red China in Conflict. (5-0-5). SSC.

This course will consider and evaluate Chinese and Russian relations before and after the 1917 Communist Revolution. The causes of Sino-Soviet conflicts will be traced to their economic, political, strategic, as well as ideologue, will be compared with the

political, strategic, as well as ideological sources. The history of the break between the Soviet Union and the Peoples Republic of China and the implication of this hiatus for the security of the modern world will be critically examined.

POLITICAL SCIENCE 625. Communist China in World Politics. (5-0-5). SSC.

This course stresses the international role of the Peoples Republic of China. The growth of China's Communist element is traced first through its tenuous relationship with Nationalist China and then as the successor to Nanking. Particular emphasis is given to the changing relations of Red China to the USSR, the United States, Japan, and the developing nations of Africa, Asia, and the Middle East. Communist China's interest in world revolution, cultural programs, and insurgencies are examined against its break with and distrust of the Soviet Union. Reasons are explored for the detente of China with the United States.

POLITICAL SCIENCE 626. Seminar in International Law. (5-0-5). ASC.

A detailed study of selected topics within the field of International Law. Emphasis will be on wide reading, written reports and classroom discussion and analysis.

POLITICAL SCIENCE 627. International Organizations. (5-0-5). SSC.

This course will analyze the roles and internal structures of the United Nations, the Common Market, NATO, the International Court, the Organization of American States, the World Bank, and other international organizations. Of special interest will be the particular influence of the United States in these organizations.

POLITICAL SCIENCE 628. Communism, Capitalism, and Christianity. (5-0-5). SSC.

This course is a study of the origins of Communism, Capitalism, and Christianity and their interrelationship in the modern world. Students will explore the similarities and differences of the three factors in Europe, Asia, Africa, and America. The effects of these forces will be studied as they impinged on various countries and on such dominant personalities as Joseph Stalin, Woodrow Wilson, Sun Yat Sen, De Gaulle, Francisco Franco, and John D. Rockefeller. Of special interest in this study will be such periods of intense Communist-Capitalistic relationship as the Post-World War I period, the epoch of Nazism, the "Cold War," and the Russo-American Detente.

POLITICAL SCIENCE 629. Contemporary Problems in International Relations. (5-0-5). SSC.

An analysis of the major areas of conflict — or cooperation — in the international arena is made to highlight trends, patterns and continuities.

POLITICAL SCIENCE 630. World Ideological Movements. (5-0-5). ASC.

An analysis of the major ideological movements conditioning the mind of contemporary man. The course will focus primarily on democratic capitalism, fascism, socialism, and communism.

POLITICAL SCIENCE 635. Black Political Thought. (5-0-5). SSC.

A study of the major thinkers in the Black community and the effects of their ideas on the concepts of freedom, liberalism, conservatism, state, obligation, consent, etc., for the purpose of its intellectual value and comparative possibilities.

POLITICAL SCIENCE 642. Latin American Politics. (5-0-5). SSC.

A survey of the key Latin American countries and their politics is made for insight, comparison, and prospects.

POLITICAL SCIENCE 649. Revolutions and Revolutionaries. (5-0-5). SSC.

This course addresses itself to the causes and characteristics of revolutions, from the American Revolution to the recent social revolution of Blacks, women, and minorities. Each major revolution selected will be examined concerning the basic reasons for the upheaval, the leadership, and the benefits and losses incurred by the revolt. The course will specifically treat the French Revolution, the revolutions of 1848, the Risorgimento, the Meiji Restoration, overthrow of the Ching Dynasty, Jose Rizal and the Philippines, the Irish problem, Kenyatta and the Mau Mau and other revolutions.

POLITICAL SCIENCE 680. Readings in American Government. (5-0-5). SSC.

POLITICAL SCIENCE 681. Readings in American Political Thought. (5-0-5). SSC.

POLITICAL SCIENCE 683. Readings in Political Theory. (5-0-5). SSC.

POLITICAL SCIENCE 684. Readings in Comparative Politics. (5-0-5). SSC.

POLITICAL SCIENCE 690/691. Independent Study. (Credit varies). ASC and SSC.

Admission by approval of the instructor and the Departmental Coordinator.

MATHEMATICS

FACULTY

Mr. J. B. Clemmons, Department Head, (SSC); Dr. Richard M. Summerville, Department Head, (ASC); Dr. Chi, (ASC); Dr. Engelhardt, (SSC); Dr. Etersque, (ASC); Dr. Hansen, (ASC); Dr. Hinkel, (ASC); Dr. Houston, (SSC); Dr. A. Hudson, (ASC); Dr. S. Hudson, (SSC); Dr. Kilhefner, (ASC); Dr. Laska, (ASC); Dr. Munson, (ASC); Dr. Netherton, (ASC); and Dr. Shipley, (ASC).

Program of Study Leading to the Degree Master of Education in Mathematics

Coordinator — 1977, Dr. Richard Summerville

OBJECTIVES

The Department of Mathematics of the Joint Graduate Studies Program, in cooperation with the Department of Education, offers a program of study leading to the degree of Master of Education. The objectives of this program are:

1. To enhance the academic and professional competence of mathematics teachers in secondary schools — at both the junior and senior high school levels;
2. To develop the skills, confidence, and understanding that such teachers need in order to meet the present scientific and technological challenges of modern society;
3. To acquaint secondary mathematics teachers with the various major branches of mathematics which are active in contemporary research and relevant to the various modern secondary mathematics curricula; and
4. To familiarize teachers of mathematics with those persons who have contributed significantly to the field, as well as with prominent mathematicians and educators currently working in the area of improving the teaching and understanding of the subject.

In addition to its own degree program, the department also offers coursework designed to support the other graduate degree programs of the Joint Graduate Studies Program and to meet the needs of all graduate students in the areas of mathematics, mathematical physics, mathematics education, statistics, and computer science.

ADMISSION REQUIREMENTS AND PLACEMENT

Students entering the M.Ed. degree program in mathematics must satisfy the general admission requirements of the Joint Graduate Studies Program, including the requirements related to either the "common" part of the National Teachers Examination (NTE) or the "aptitude" part of the Graduate Record Examination (GRE). In addition, the mathematics "area" part of the NTE must be taken prior to admission as a degree-seeking student. Students must make a scaled score of 600 on this "area" test for Regular Admission; no minimum score is required for Conditional Admission.

Subsequent to his admission, but prior to enrolling in his first mathematics course (which, ordinarily, is Mathematics 501), each student must take the Graduate Mathematics Diagnostic Test (GMDT). The GMDT has the purpose of allowing some students to exempt Mathematics 501 upon scoring at a very high level. However, if a sufficiently *low* score is made on the GMDT, the student is not allowed to take Mathematics 501 until he meets requirements set for him by the Examinations Committee of the Joint Graduate Mathematics Faculty. These requirements normally consist of satisfactory performance in appropriate undergraduate course(s) and/or on subsequent re-examination. The GMDT is not required of students in order to take Mathematics/Education 592 or Mathematics 594.

Each entering student should contact the Mathematics Coordinator of the Joint Graduate Studies Program as early as possible for details concerning the GMDT and should arrange with the Coordinator to take the GMDT at its first administration after his admission to the program. Failure to do so can result in severely retarding the student's academic progress.

ADVISEMENT

Shortly after his admission to the M.Ed. degree program in mathematics, each student will be assigned both an academic adviser and a professional adviser. The former will be a member of the Joint Graduate Mathematics Faculty, and the latter a member of the Joint Graduate Education Faculty. As soon as he is notified of this assignment, the student should arrange for a conference with each of his advisers and begin planning his entire degree program under their guidance. A copy of the student's proposed program is to be placed on file in each of the Graduate Dean's offices. The student will find that his advisers can provide him with the kind of counsel and

information which will make possible realistic planning, informed and personalized judgments, and, hence, a maximally valuable graduate education. Each student should feel free to consult with his advisers as often as is necessary and should plan to have at least one conference per quarter with each.

TRANSFER OF CREDIT

All student requests for transfer of graduate mathematics credit will be evaluated by the Transfer Credit Committee of the Joint Graduate Mathematics Faculty. A formal student request should include a list of the courses to be considered, a list of the texts used for each course, and a catalogue containing a description of each course.

In reaching a decision the committee will adhere to the philosophy that the transfer of graduate credit is a privilege to be granted only when there is no doubt that the course under consideration is comparable in quality and content to one in the Joint Mathematics Graduate Program. To properly determine these factors, the committee may at its option (a) request a personal interview with the student to discuss course content and/or (b) require a written examination to test the student's mastery of this content.

Transfer credit is also subject to the following regulations:

1. Each course must have been taken in an accredited graduate program.
2. Each course grade must be B or better.
3. Each credit must have been earned within the past five years.
4. A maximum of ten (10) quarter hours of transfer credit in mathematics may be applied to a degree.

COURSE REQUIREMENTS

Students must complete a sequence of courses which conforms to the following requirements:

- I. Education Courses (20 quarter hours): To include Education 631, either Education 621 or 622, Education 671 and Education 641.
- II. Mathematics Courses (35 quarter hours): To include Mathematics 501, 502, 505, 510, 530, and 10 quarter hours of approved courses chosen from the following courses: Mathematics 605, 610, 615, 620, 630, 635, 640, 655, 660, 670, 691, and 692. It is strongly recommended that 501, 502, 505, 510 and 530 be completed before taking other courses.

III. Elective Courses (5 quarter hours): To be taken in Mathematics, Education or a suitable third field with the prior approval of the student's advisers. (Since a course in exceptional children is required for certification, students should take EXC 522 if they have not had an appropriate course previously.)

IV. Balance of Courses. Students will fulfill the balance of courses requirement by taking one-half of their courses at each College. A guide to the location of the mathematics courses follows:

Savannah State College

MATH 501	MATH 640
MATH 505	MATH 655
MATH 594	MATH 670
MATH 605	MATH 691
MATH 635	

Armstrong State College

MATH 502	MATH 615
MATH 510	MATH 620
MATH 530	MATH 630
MATH 592	MATH 660
MATH 610	MATH 692

A guide to the campus location of the Education courses is in the Education Department of this *Bulletin*.

COMPREHENSIVE EXAMINATION

Certain courses in the M.Ed. degree program in mathematics are designated as "core" courses because they contain many of the concepts most basic and useful to a teacher in junior or senior high school. The core courses are Mathematics 501, 502, 505, 510, and 530.

An integral part of the graduate program is the attainment of the kind of *comprehensive* understanding of these concepts which can be achieved by their re-examination in the light of experience and insight obtained from the completion of the courses in the program. The mathematics graduate faculty also considers that the *crystallization* of knowledge to be gained from remastering fundamental topics with the benefit of a broadened viewpoint is of great value.

Accordingly, each recipient of the Master of Education degree in Mathematics is required to have successfully demonstrated the attainment of such knowledge and such understanding on a written comprehensive examination. The following regulations govern the administration of the comprehensive examination in mathematics.

1. Comprehensive Examinations will be held during the Fall and Spring Quarters, on the third Monday of November and April, respectively. The Coordinator shall notify the students and the Deans for Graduate Studies, at least ten days prior to the examination, concerning the place and time of day of the examination.

2. Students must register with the Mathematics Coordinator stating their intention to take the Comprehensive Examination. The deadline for registering for the Comprehensive Examination is two months before the date of the Examination. The registering students will receive within one week of this deadline the list of topics for which they will be responsible on the examination.
3. The Examinations Committee of the Joint Graduate Mathematics Faculty will be responsible for constructing exams, administering them, grading them, and making recommendations to the Joint Graduate Mathematics Faculty concerning success or failure on the examinations. The Joint Graduate Mathematics faculty shall make the final decision on success or failure. The result of the examination will be reported to the Deans for Graduate Studies within seven days after the examination.
4. The Mathematics Coordinator will notify the examined students on the results of the Comprehensive Exams. The examined students may request a conference with their faculty advisers for the purpose of discussing and reviewing the examination papers. The examination papers will remain in the advisement files of the student advisers until the end of the subsequent quarter.
5. Students may repeat the Comprehensive Examination as many times as they find necessary to demonstrate the required level of competence.

Graduate Courses in Mathematics

MATHEMATICS 501. Calculus for Graduate Students. (5-0-5). SSC. Prerequisite: Students must pass the Graduate Mathematics Diagnostic Test prior to enrolling.

A review of the fundamental concepts and applications of analytic geometry and the differential and integral calculus of one and several variables. (May be exempted by examination.)

MATHEMATICS 502. Foundations of Mathematics. (5-0-5). ASC. Prerequisite: Mathematics 501.

An intensive examination of the fundamental ideas of modern axiomatic mathematics. Special attention is given to elementary logic, sets, relations, functions, and a systematic construction of the real number system.

MATHEMATICS 505. Analysis I. (5-0-5). Prerequisite: Mathematics 502. SSC.

A careful re-examination of the elements of differential and integral calculus; limits, continuity, the derivative, implicit functions, inverse functions, the indefinite and definite integral, the fundamental theorem of calculus; applications in science and technology.

MATHEMATICS 510. Algebra I. (5-0-5). Prerequisite: Mathematics 502. ASC.

A brief survey of abstract and linear algebra, including topics from group theory, vector spaces and matrices.

MATHEMATICS 530. Geometry I. (5-0-5). Prerequisite: Mathematics 502. ASC.

A transformation approach to the study of Euclidean, hyperbolic and elliptic geometry; together with its application in secondary school curriculum.

MATHEMATICS/EDUCATION 592. Modern Mathematics for Elementary Teachers. (5-0-5). ASC. (Does not require the GMDT.)

Content concentration emphasizing the rigor, mathematical language, and subject matter to be taught in the elementary school.

MATHEMATICS 594. Statistics for Education and the Social Sciences. (5-0-5). SSC. (Does not require the GMDT.)

Graphic representation and data reduction; measures of central tendency and variability; distributions; correlation; regression; hypothesis testing. Primary emphasis is upon the development of statistical skills necessary for the conduct and interpretation of statistical research.

MATHEMATICS 605. Analysis II. (5-0-5). Prerequisite: Mathematics 505. SSC.

A continuation of Analysis I; Taylor's theorem, infinite series, power series, improper integrals, multiple integrals; applications in science and technology.

MATHEMATICS 610. Algebra II. (5-0-5). Prerequisite: Mathematics 510. ASC.

A continuation of Algebra I with topics from groups, rings, and fields.

MATHEMATICS 615. Number Theory. (5-0-5). Prerequisite: Mathematics 502. ASC.

Topics from number theory including divisibility, congruences, Diophantine problems, number-theoretic functions, classical construction problems.

MATHEMATICS 620. Probability and Mathematical Statistics. (5-0-5). Prerequisite: Mathematics 505. ASC.

The basic concepts of probability and statistics. Random experiment, event space, probability, random variable, conditional probability, independence, basic distributions, limit theorems, sampling, estimation, tests of hypotheses.

MATHEMATICS 630. Geometry II. (5-0-5). Prerequisite: Mathematics 530. ASC.

A continuation of Geometry I including a study of similarities leading to some classical theorems of geometry.

MATHEMATICS 635. Topology. (5-0-5). Prerequisite: Mathematics 502. SSC.

The basic concepts of topology; topological spaces, continuous functions, homeomorphisms, quotients, products, connectedness, compactness, separation axioms, metrizability.

MATHEMATICS 640. Applied Analysis and Mathematical Physics. (5-0-5). Prerequisite: Mathematics 505. SSC.

Formulation of equations from scientific and technological principles and the solution of these equations. Problems will be chosen from the physical and biological sciences, from engineering and from business and economics.

MATHEMATICS 655. Computer Science and Numerical Methods. (5-0-5). Prerequisite: Mathematics 502. SSC.

Topics in computer science and numerical methods, to include various applications of computing in mathematics and data processing.

MATHEMATICS 660. Mathematical Logic. (5-0-5). Prerequisite: Mathematics 502. ASC.

Topics include symbolization of sentences, and the propositional and first order predicate calculi (including the completeness theorems). If time permits, cardinal and ordinal numbers will be discussed.

MATHEMATICS 670. History and Philosophy of Mathematics. (5-0-5). Prerequisite: Mathematics 502. SSC.

A survey of the development of mathematics and a study of formalism, intuitionism, and logicism.

MATHEMATICS 691. Topics in Mathematics for the Junior High School I. (5-0-5). Prerequisite: Mathematics 502. SSC.

A detailed examination of the content of various modern programs in mathematics for the junior high school. Special attention is given to a development of the theoretical foundations underlying such content and to the relevance of the content in other areas of a student's education.

MATHEMATICS 692. Topics in Mathematics for the Junior High School II. (5-0-5). Prerequisite: Mathematics 691. ASC.

A survey of topics from finite mathematics including combinations, permutations, probability and statistics. The computer will be used as a tool for solving problems in these areas.

MATHEMATICS 698. Special Topics. (1 to 5 hours). ASC. Offered by special arrangement. Prerequisite: consent of the instructor and permission of the department head. SSC.

Individual reading and research under the direction of a member of the graduate mathematics faculty. The topics will consist of material not normally covered in the regular course offerings.

MATHEMATICS 699. Special Topics. (1 to 5 hours). SSC. Offered by special arrangement. Prerequisite: consent of the instructor and permission of the department head. SSC.

Individual reading and research under the direction of a member of the graduate mathematics faculty. The topics will consist of material not normally covered in the regular course offerings.

INDEX

Academic Calendar	4
Academic Standing	29
Adding Courses	29
Administrative Officers	8
Admissions, General Requirements	20
Procedures	23
Types of	21
Advisement	25
Balance of Courses	32
Biology, Graduate Courses in	51
M.Ed. Degree in	49
Board of Regents, Members of	6
Staff of	6
Business Administration, Graduate Courses in	41
Master's Degree in	36
Business Education, Graduate Courses in	47
M.Ed. Degree in	43
Candidacy for Degree	32
CATES Courses	30
Chemistry, Graduate Courses in	58
M.Ed. Degree in	56
Class Regulations	27
Comprehensive Examination, Requirement for Degree	33
Course Load	29
Degree Requirements, Summary	33
Degrees Offered	31
Dropping Courses	29
Education, Graduate Courses in	67
Programs in	60
Elementary Education, M.Ed. Degree in	60
English, Graduate Courses in	77
M.Ed. Degree in	74
Exceptional Children, Degree Program in	65
Graduate Courses in	72
Faculty	10
Fees	17
Financial Assistance	19

Grades	27
Graduate Council	9
Graduate Courses, Identification of	27
Graduate Departments, Heads of	8
Graduate Program Coordinators	35
Graduation, Application for	33
History, Graduate Courses in	83
M.Ed. Degree in	78
History of Joint Graduate Studies Program	15
Housing	19
Joint Graduate Studies Program,	
Administration of	16
History of	15
Organization of	16
Purpose of	15
Mathematics, Graduate Courses in	96
M.Ed. Degree in	92
Political Science, Graduate Courses in	87
M.Ed. Degree in	78
Probation	29
Program of Study Advisement Form	26
Readmission	23
Refunds of Fees	18
Registration	26
Requirements for Master's Degree, General	31
Residence Requirements for Degree	31
Residency Requirements Georgia	17
Special Admission Advisement Form	25
Special Education, Graduate Courses in	72
M.Ed. Degree in	65
Student Responsibilities	25
Teacher Certification	33
Time Limitation, Degree Programs	31
Transfer of Credit	26
Veterans Benefits	19
Withdrawal from Classes	29

